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The Jaguar finally has a do-or-die war game!







#### Team Work

When I completed the final issue of Atari ST Review, I

same editorial team was used and, to a person, they'll be appearing within these pages. Ofir Gal, as technical editor, will oversee the accuracv of our reviews and O&A sections: Andrew Wright, the assistant editor, will endeavour to uphold high editorial standards; and Nial Grimes, our features editor, will ensure that the main stories are topical, interesting and, most

ence intrary or usero into Amile Fab with search finto areas that no other mag currently touches. Our two competitions place an entire Falcor system up for grabs, plus 25 copies of UVK, All you have to do to enter is to fill in our survey

of a few shortcomings, not least of all the et that you couldn't find it in the shops! Atari orld is being distributed by one of the best

It's good to be back – and in case any ST Review readers are wondering, no, my kitchen table never did get cleared...



The World Wide Web is getting some hefty press, but what is it and how does it affect Atari comms users?

Atari World starts its wander around the UK Atari user groups.

Four pages of answers to your

#### 82 TalkBack

Neal O'nions, publisher of Atari World. takes his place on the hot spot with four questions from Vic Lennard.

#### Don't forget to read this month's FREE magazines...



#### NIPPETS

An Atari Show modelled closely on the recent ST Deviewsnoncored events in the UK, was staged in Paris during mid-December and attracted around 2.500 Atari enthusiasts. Organised by Compo, a second show has been organised at a bigger venue, also in Paris, over the week end of April 1/2. This first issue of Atter World made its world debut at the Peris Atari Show and we would like to extend an entente cordial to our French readers.

@ Fioppyshop (01224 312756) has tled up a distribution deal for its Flooryware range of products with the Atari ST Users Group of Winnings Capada, As a result, custerners in the US and Conada will be able to order their licencewers directly from the club. The Flooryware range currently consists of 50 titles and is growing every month. Authors wishing to know more about Floppyware should contact Floppyshop for their information leaflet: customers can obtain a copy of the catalogue free of charge by sending two blank disks.

The MIDI and Electronic Music Show (MEMS '95) takes place late this month. Currently the UK's premier music event, new products urwelled at the Los Angeles NAMM Show and the Frankfurt MusikFest can be seen for the first time in the UK, MEMS '95 runs from April 21-23 at Olympia 2, Kensington, London,

Another show about to get on the road is Gasteiner's Spotlight 1995. Atari and Amiga specific, companies such as HiSoft, 16/32 Systems. Digital Awareness, Compo Software and Power Computing have already backed into the show which takes place at the Novotel, West London on tune 10/11. More information from Oastelner Technologies on 0181-345 6000

Magic Media, the only British manefecturer working on a virtual reality headset, has been forced to abandon the project at the eleventh hour. A prototype of the unit is said to have hean completed but failed to reach the production stage due to a dispute between the firm and its financial harker. The planned headset was to have sold at £299 (plus VAT) and would have been Jaguar compatible. assuming that software support was forthcoming.

## HiSoft to continue Atari support



Papyrus - colour printer support in version 4.

ontrary to recent reports, HiSoft (01525 718181) has In intention of leaving the ST scene. In fact, its commitment to supporting existing packages and bringing new products to market is as resolute as it has ever been. The misunderstanding came about as a result of a comment made by HiSoft on the CIX bulletin board, stating that it was not planning to develop any further Atari-based

titles in-house. When asked about this, managing director David Link told Atari World that although inhouse development had ceased. HiSoft would continue to bring new releases to the market and support existing Atari products. He becked this up further by giving us a brief outline of the plans for STbased products over the next few

Products currently due for a

major revamp include its flagship document processor Papyrus, which will feature colour printer support in version 4, and Diamond Edge 2, which promises a completely redesigned interface and will include a built-in disk sector editor among other things. Another of the packages due for a major upgrade is leading database package Twist, but no details on Twist 3 were available as we went to print. A minor upgrade to Dismond Back 3 is also expected within the next few months. Other products that are being actively maintained include Devoac 3. Lattice C. Devoac DSP, Harlekin 3, True Image and Clarity Falcon.

HISoft recently produced a lowcost professional SCSI interface for the Amiga which proved to be an outstanding success. As a result of this, it plans to bring out similarly specified low-cost SCSI interfaces for Atari computers later in the year. However, rather than merely supplying the interfaces, it is likely that HiSoft will be offering complete hard drive systems. We'll keep you posted as more details emerge.

## English Magi

The English version of MaglCMac is now on sale from System Solutions (0181 693 3355), This package allows most well behaved GEM-based ST software to run on an Apple Mac. Compatible programs operate in 2, 16 or 256 colours and run faster than they would on a TT! Also, the different applications multi-task under a modified version of MagiC, hence the name. The current version is a

printer support being limited to localtalk printers via GEMDOS, or



An English version of MagiCMac, seen here at CeBit, is now available.

parallel printers connected by the PowerPrint hardware. Full printer support will be in the form of an adapted version of NVDI 3 that will also support True Colour. MagiCMac runs on any 68030 or 68040-based Apple MacIntosh under System 7. Price is £149.95.

There is also an upgrade to NVDI 3. The latest version (3.02) supports colour printers and has a few small bug fixes. Available now for £49 95, current users are entitled to a free upgrade on receipt of the master disk, a copy of their invoice and an SAE.

## Silly Grafix Comic Beyond Relief

Grafiy is the first commercial release from Silly Software (01705) 785203) since it split from IDS. As the name suggests, the package aims to teach you the basics of computer graphics, but what makes this art tutor stand out from the crowd is that it also delves into animation, with four of the eighteen tutorials dedicated to the subject.

The program is designed with the complete beginner in mind and features simple mouse-controlled menus linked to each other for ease of use. Select the desired option and a series of well-presented Illustrations take you through the tutorial step by step. While perusing any tutorial, the online manual con he called up to give more detailed information on your chosen topic.

Also included is Grafix Art, a basic art package. Although Silly Software admits that this is not as powerful as Canvas True Paint or EZ-Art Professional, it does offer all the usual graphic tools as well as 15 built-in fonts and an animation option. Grafix Art Is integrated into the nackage and can be accessed directly from the main menu, allowing you to try out newly learned techniques without having to quit and reload. Price is £10 05

PERSPECTIVE

| Hear | + Hext Page - + |

Visual art lessons from Graffix - just like being back at school, really...

Frank Charlton and Andy Curtis, who run Ad Lib BRS (24 hours. speeds up to v34 on 0191 3702659) recently came up with an enterprising idea to raise extra funds for the BBC's Comic Relief anneal. "The Great 1995 Ad.Lih Joke-athon" was a fun event in which users submitted humorous works of art or prose to the ludging panel with prizes being offered as an incentive to participate.

The event consisted of four categorius: lokes, humorous prose, poetry and cartoons - the general rule was that if you made the organisers laugh, you'd win something! Users paid a minimum of £1 to enter each category and were encouraged to submit multinie entries to help the fund raising. The organisers plan to immortailse the best entries into a disk mag that will be released into the Public Domain.

time to organise the event. Frank and Andy's contribution extended to covering the associated telephone calls and postage costs out of their own pockets

As well as the generosity of all those who participated, a number of Atari-based companies and individuals including (in no particular order) JCA Europe Ltd. Compo Software, ST Format, 16/32 Systems, Joe Connor. FaST Club. HiSoft, Floppyshop. Gasteiner André Willey, Offr Gal and Denesh Bhabuta. donated software and hardware teamin to oulse listes a dilucet £4.000 for use as competition prizes.

It just goes to show that the Atari community can be as generous as anyone else when it comes to supporting a good

orints colour

before.

images at twice

the eneed it did

getting mono-

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the simple addition

of a £35 colour kit

that includes the first cartridge! With

an RRP of £275

Hang on a minutel Aren't we

### COMIC RELIEF

## New DeskJet range



Desklet 540 - superb black and white printing, and colour for an extra £35. Hewlett-Packard (01344 369222) looks set to keep its runaway lead in the inkjet printer market with the launch of a completely redesigned range of DeskJets. The entry level

model is now the Desklet 540. which replaces the monochrome 520. Although it hasn't changed much in terms of resolution and mechanics, the case has been restyled, the firmware upgraded and a more powerful processor

(ex VAT) this will owners' shopping lists. The new DeskJet 540's case is

put it right at the top of many ST

much more compact than before with a slightly smaller footprint, and the control panel has been simplified to just two buttons. Swapping

a black cartridge for a colour one is easy too. As soon as you lift the lld, the carriage automatically centres itself. letting you lift the cartridge out of the holder and pop the new one straight in. Just how easy this all is in practice, we'll see next month when we bring you a full

Of course, the 540's colour kit mokes the 5500 obsolete on its replacement, the 660C, has been substantially upgraded, it now prints in monochrome at up to 600 by 600 dpi, is twice as fast as its predecessor when printing in colour and costs £460. It is almed primarily at the business market or the demanding home user as the high resolution, coupled with HP's Resolution Enhancement Technology (REt), will give many laser printers a run for their money.

Incidentally, If that still isn't good enough for you, there's always the brand new 600m Desklet 850C and colour Resolution Enhancement Technology (C-REt) at £539 or the 8ppm DeskJet 1600C at £1150. Choices, choices...

## German Shows '95

Reports from Cellit and the Frankfurf Maulic Pair The whole world dissonds on Hannover in Germany for one week in March each year to see latest developments in computing — at least, that is how it feels when you're there. In this tenth year of Cellit, more than 6,000 exhibitors from 57 countries occupled 21 exhibitor halfs: 914,000 square metres of exhibits and 277,000 wishing.

The Pentium and PowerPC were the dominating computer systems at this year's show. Apple Macintosh teamed up with IBM, each showing their PowerPC. Apple's newly-licenced PowerPC manufacturers, Pioneer, Power Computing Corporation and Radius, were showing their new creations running Macintosh software.

Sadily, this year there was no presence of Alat Coppretien. Of course, there are no new Atari computers to show and the size is perhaps not the right product the world's largest computer show. However, the Apple main stand in Hall 11 was the meeting point for all German Atari Software Developers and programmers. In a push to expand market share, Apple is actively supporting develponent from the partitions, Apple in Software Department of the Apple is actively supporting develponent from the patterns, Apple is Software Developers from the patterns, Apple is Software Developers from the patterns, Apple is Software Softwar

provided three LC630s running MagiCMac to demonstrate Atari Software, Macintosh users were amazed by the range of "new" software,

Thomas Tempelmann of Application Systems patiently explained the secrets of MagiCMac. Wilfried and Sven Behne of 28 showed the special version of NVDI for MagiCMac, and Papyrus and Calamus SL were also demonstrated, including various powerful modules for the latter. Can QuarkXPress touch up a drawing? Nope. Digital Arts was showing its range of software including its latest 7-colour publishing package: very interesting but also very specialist. These guys certainly know their stuff,

So who says the Atari market is dying? Far from it. MaglCMac has definately caused a wave of confidence among German Atari developers and Atari users. Look out for a host of new products and ungrades from Germany.

Other interesting new products were various high speed moderns all running at up to 28,900bps (the V.34 standard). ISDN, the digital telephone system for data rates up to 28,000bps, is becoming popular for live computer video confreening and wide argan perhandride. ISDN is very

DMC on the
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at CeBit with a concourtesy of MajCMac who'd have
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and monthly

charges of

only DM42.10 – more expensive than a normal line, but for this you get two channels! So you can use you modern at the same time as the telephone. In the UK the connection fee alone will set you back £400. Come and join the '90s, BT.

Steinberg showed Cubase Audio for the Power PC with up to 32 tracks of 16-bit audio - if you can afford it! The Falcon is still the most affordable digital audio platform...



#### Music time

... which brings us nicely to the Frankfurt Music Messe. This is the most important exhibition for the German and European music scene, showing new products to the trade and public.

Every year, there seem to be hundreds of exhibitors showing loudspeakers, mixing desks, micropliones, studio cables and show lighting gear, so it took some time to find the really interesting bits.

And there it was on the Steinberg stand, on show for the first time - the new C-Lab Falcon030 Mkll. It looks like the Atari Falcon but comes with some interesting new features. The analogue inputs and outputs have been re-engineered to allow line levels up to +4dB. The channel separation and signal to noise ratio have been improved and the internal hard disk is now a fast 2.5 inch 514Mb SCSI drive. The C-Lab Falcon comes with 16Mb memory as standard. A more enhanced design of the Falcon is currently being developed, and C-Lab promises a rack-mounted version in the near future.

Really exciting was the SoundPool stand. The designers and manufacturers of the wellknown Falcon Digital Interface and Falcon Audio 8 Interface had lots of new products for the Falcon musician, including the Audio Workstation 1. Based on a rackmounted Falcon 030, if features all necessary addons for professional audio work in one unit.

Much in demand are MIDI port expanders for the Atari computer. The brand new MO4 connects to the parallel port and provides a further four MiDI outputs, Already compatible with AudioTracker and Cubase, and with software for Notator Logic available soon, the MO4 will cost £149.

On the DAT side, SoundPool showed the £259 SRC, which converts all sampling rates to the standard digital audio frequencies of 48, 44,1 and 32kHz, and DataDAT, back-up software for the FDI. Steinberg FDI owners can buy this separately for £39.95. AudioMaster, the digital mastering software, has been updated to version 1.5 and AudioTracker now works with MIDI automation. The mixer can be controlled by an external mixer via MIDI. Very handy this, and much faster than twiddling knobs on screen using the mouse. System Solutions are SoundPool's UK distributors.



Steinberg's stand at the MusicMesse featured C-Lab Falcons running Cubase Audio and Avalon 3.0.





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### Quite Unique...



Following the runaway success of Obsession, Unique Development Sweden has SubStation almost ready for release. The game is set in a futuristic undersea energy substation; the game begins when all communications with SubStation are lost and the owners enlist the heip of the US Government to find out what has happened.

SubStation is a fast action arcade game in which you move around a real-time gouraud-shaded 3-D world. You can run, walk, strafe, pick up Items, choose between



(01734 452416) and Merlin (01452 770135).

if only I can reach

tors. Several functions such as strafe, rotate, run and fire can be performed at the same time, giving you total control of your actions One of SubStation's unique features is the use of a

special sound effects system called Distance &

numerous weapons, open

doors and move between

sub-levels using eleva-

that amme cliu... Direction Audio. This allows you to hear where the monsters are lurking. Another great feature is MiDI Link - up to four players, each running SubStation, can compete either individually or by forming two teams. SubStation requires an STe or Falcon with a colour display and 1Mb of memory. Control is by way of the Jaguar Power Pad or the keyboard. Release is set for May 1 and price has been fixed at £24.95. SubStation will be distributed in the UK by JCA Europe Ltd

#### Tales from the Internet

terland with its unconscious neural pathways and the shambolic arcing waves of data there's one thought that normally comes to mind: "It's pretty big, Innit?" The Internet is huge - it has upwards of 60 million users and 4 million different sites.

Within this gigantic landscape there is something for you, the intrepid Atari user. In fact, there's a lot for you, as the Atari scene is healthy, fresh and vital on the

More than 150 messages a day pass through the Atari newsgroups, from file requests to technical programming queries. There are massive Atari software depositories, so large that it'd be difficult to soupeze them onto five CD-ROMs. There are Atari information providers, mailing lists about Atari programming, realtime Atari chat lines and a myriad of writers, programmers, software houses and Atari owning friends to e-mail.

This month has seen a very welcome change to the connection scheme at an important Atari software site. HENSA. at Lancaster University, had decided to run a closed door policy that excluded everyone but other academic organisations.

This was a great shame: Danesh Bhabuta, who ran the Atari section, is probably the most enthusiastic Atarian I know. Over the past year he'd built up the software archive there into one of the best in the UK. It looked like his good work would go to waste.

But now, partly due to pressure from unhappy Atarians, there are some free FTP slots available all day (more in the evenings) and World Wide Web access is unrestricted after 8nm. You can connect to HENSA by using the FTP or gopher address. micros hensa ac.uk. or by using the Web URL. http://micros.hensa.ac.uk.

Next month I'll bring you some news from the newsgroups and take a look at one of the largest FTP sites anywhere on the 'Net

## **UPDATE**



Tie-Fighter and Star Raiders are evident in 4Play's Battle Sphere.

Tie-Fighter was one of the hottest PC entertainment releases last year and if you found yourself suffering from twinges of envy, news of BattleSphere for the Jaguar will lay them to rest. Although the game is not backed up by any specific licence, it draws heavily from Star Raiders (the play mechanics) and Tie-Fighter (the graphics) - Star Wars along with Red Dwarf can account for just

about everything else. The programmers are obviously complete sci-fi fanatics, so this one should

Fight For Life, Atari's answer to Virtua Fighter, is also rapidly approaching release, and judging by the screen shots, it's going to be quite some game. Sega's smash has always relied very



Fight for life is influenced heavily by Virtua Fighters, but texture mapping makes the characters look much more heavily on gameplay, so we can only hope that Atari have got this angle well covered. With François Restrand (reportedly a member of the original VF project) on the case, it should be a real stunner. Also strong in the graphical stakes is Hover Hunter - a blast-'em-up set over a truly stunning three-dimensional landscape is looking equally impressive. Yeah - bring on those surround sound

Quality-wise, Jaguar games are definitely heading in the right direction. Doom has had the best reception of any release thus far - the Internet is usually packed with conflicting reports but you'd but praise for id's top-notch con-

Polishle information on the Jaguar CD add-on is finally begin-



Impressive three-dimensional landscapes are Hover Hunter's trademark - an aggressive techno soundtrack adds to the atmosphere.

ning to trickle through official channels. The US price is set at a very reasonable \$149 and a combined Jaguar/CD system is in the pipeline. This follows on from the news that the Jaguar itself (under £130 in real money), Atari are claiming that Jags are now fiving out of the doors; yes, they would say that, but given the new price point it's quite possibly true...

## HOLLYWOOD HUSTLER

The first full digitised adventure game to arrive on the ST.

This game works on all Atari STplatforms, from the 1 Meg STFM to 4Mb STE.

This game has to be on CD-ROM

- Senior Atari Executive

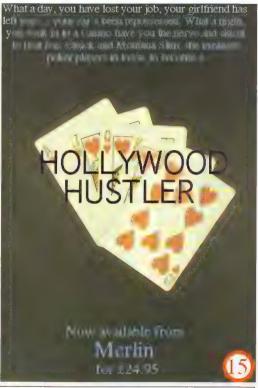
Yes, it is true now you can enjoy a truely playable game with the added bonus of having one of the top poker engines, sampled speech and a full cinematic introduction.

The game comes with a full manual and is boxed.

The game was filmed on location in Holly wood with a cast of professional actors who have several film credits to their names.

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## REVIEWS

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## Inside:

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# Maxis

## 3

#### Atari World Scoring System

Each product we review (hardware, software, P0 and shareware) in marked out of 10: an average product gets around 5.

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A mark of 7 or 8 results in a "Buy Ne" awd If the product is in an area that interests you, then it warrants careful

consideration.

A mark of 9 or 10 receives the ultimate accolade of an "Atari World Beater" award. Such a product has been accepted by our eagle-eyed reviewers as being excellent in its class.



# the Quill





It's unlikely to double as a word processor but you never know!

omputer graphics is becoming more and more sophisticated You can recruit ultra realistic scores in a raystracer, false a photo of yourself shaking hands with the Queen in an image processing package or just get plant creative with natural models braken like oils and wateroolous; But easy our draw a simple shape without it looking like a thrate year old's earthfully.

Well John mind admixing that I can't I can raytrace and recouch with the best of them but typ to ceate a simple for use the school process. The control was simple for use as clip art and even the kids start langhing. That we before Quill came along, of course Or to be more precise bisee version 2 came along. The first version of Quill was specifically amend at owners of the Thibby graphics tablet but Quill 2 can now be used more easily with an ordinary mouse, making it is abstrate by for users relaxation to spend 450 yr. a Tabley Incubentally it alone adds support for another low-cost tablet, the Wesson Arroad

In essence Quill emulates natural drawing tools using shaped or staticised mbs and a smoother, algorithm to make the mouse behave the way you want it to and not the way it does in practice. If you've ever tried signing your name or drawing something freehand in a paint package, you'll know just what I masse.



Quil, 2 is ideal for tracing when used with a graphics tablet.

DEBU THE WAS BOLL IN

Un to 15 times magnification can be achieved for fine detail.

The program is supplied with a 15page manual with a single sheet update streehed to it The distribu-

tion disk includes some special Tabby drivers and configuration accesanries as well as natch program to make it work properly with NVDI

Down to husiness

Quill 2 has a functional attractive interface with a large drawing area and some tonnic tools along the top and to the left A status

window at the top provides on-line help. you click on whichever

with three different other pen nib you want to use and then start applying pen strokes in the main window. Each stroke is recorded on screen very much like a

that you will need at least a 1Mb machine for this. The other alternative, of course, is to save your work and then

calling drawing area \* con-based interface \*

Contact: 0171 679 7307

Requirements: Any Atan. 0.5Mb or more

easily coefigured Cons: Limited export a no direct printing a no

vector object although you can't edit it in quite the same way

You can after the shape, size, angle and structure of the nib by pressing the space bur or the right mouse button and then pressing the mouse pointer on the nib icon Clicking on rotate or squash mb allows

you to move the mouse or Tabby pen until von get precisely the shape and andle that you want You can also create and store up to 32 different nibs and they can be magnified when installed in the tool bar along the top, making them easier to see Drawines can be edited stroke by stroke. Although the

only way to change the actual shape of a stroke is by applying

a new nib to it, you can move or delete existing strokes at any time While a little clumsy - you have to draw a rubber band to select a stroke

- it works well enough Quill exports drawings in bitmap IMG format, despite the vector style strokes, though you can save part-finished drawings in a propri-

etary format for further editing. You can specify the exact size you want the image to be, its resolution in dots per inch and whether it is to be portrait or

landscape (if you want to save the entire nade) There is no print facility but with Imagecopy 3.54 or later To draw with Quill 2 The same set of pen/mouse strokes installed as a desk soces

ry at the same time, direct output is possible. Note

load a program like Imagecopy or GEM-View to print it out.

Outll 2 isn't the be-all and end-all of art packages but it does allow you to create unique things on screen. It may lack a number of features - I'd like to see colour support for example - but on the whole this should appeal to a lot of users, professionals and amateurs alike

#### Step by step clip art

If you've ever tried bunting through a collection of chip art images looking for first the right one, you'll know how useful it would be to be able to create your own. It is much easier to draw in Quill than an ordinary paint packages because of the smoothing effect and the configurable nibs. In this example, I've drawn a computer as part of a loop for a colour brockure.



Duill makes it very easy to create clin rounded nib is chosen and the first few strokes of the graphic are drawn



The rough and ready ctio art can be very attractive from a design point of view. This drawing took minutes to do. Once the drawing is complete, the nib can be tweaked for fact the right affact.



Once the finishing made, it's time to export the drawing. The first thing to do is define the area of the image you want to save using the



The export dialogue box lets you specify the exact size of the Image and the ranafution of your mrinter so that it can be made to fit your requirements exactly.



The IMG file is then used as part of a colour logo created in Dá's Pirtura

Bafare and after -

by increasing the

number of pixels

monitor; text and

icens appear smaller. The standard

\$40\*450 resolution

880\*556, 1s below.

shown on your

is above white

ScreenBlaster,

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ScreunBlaster works

# paces. as

Ofir Gal puts the second version of ScreenBlaster through its

This is a limitation of the Falcon. not ScreenBlaster' New for two bereenBlaster 1 was designed main A for multisean monitors The preset resolutions for stan-Jard VGA and SVGA monitors were rather limited and there was

no way of confiduring the software to produce more useful screen modes with these chasper monitors

and although these produce noticeable flicker, you may find them useful for viewing colour images. There is also support for a virtual screen of un to

3000°4000 nixels and sorolline is very smooth, especially in mono mode

the system down, this is hardly noticeable in mono mode but sets verrerus-

dimensions and refresh rate - the higher these are the slower the machine

trating in 256 colours. The speed is effected by a combination of screen

A point that is often forgotten is that extending the screen resolution slows

This problem has now been addressed in the form of the Video Mode Generator (VMG) which allows you to create custom spreen resolutions Written by the NVDI authors, this is certainly very powerful but complex to use as such parameters are usually the domain of hardware engineers. Yet with a little help from the manual, and

I created a mono resolution of 912\*688 The other major improvement is in the start-up screen which is now GEMlike and uses standard pon-up menus and buttons. Also, a simple screensaver called Screenblanker, is now included in the package. While this is very basic. simply dimming the display after a

thanks to a relatively friendly interface.

specified time of inactivity. it uses very little memory

#### Verdict

The bottom line is that if you own a Falcon and a multiscan monitor Suraan Blaurer will halm make you more productive Version two's improved software simply

makes the product that much more descrable



he Falcon can display non-

standard screen resolutions. but for reasons known only to Atari engineers, these capabilities are well hidden - even from programmers! But the Overscan team dug deep into undocumented areas to produce ScreenBlaster

ScreenBlaster 2's hardware is essen tially the same as version 1. A small adaptor takes power from one of the paddle ports on the left side of the keyboard and plugs into the monitor port at the back of the Falcon

You select your monitor via the configuration dialogue box with several preset types to choose from. If your specific monitor is not listed, you should be able to select an equivalent by checking your monitor's specifications

Once installed, ScreenBlaster reveals itself after a reboot. Just before

#### default resolution if required Screen resolutions

The preset resolutions for non-multisean monitors are a little disannointing in comparison with BlowUp030, which is surprising as the Video Mode Generator is capable of creating better ones as you will see later

With a multiscan monitor vou can select resolutions hovered 800%600 without any problems, although text is just too small on some 14" monitors (the maximum comfortable resolution on such a mon-

ltor is around 720°512) ScreenBlaster can use interlacing to achieve even higher resolutions



Some of the preset resolutions available for a multiscan montfor though not all can come with the rates and frequencies here.

Pres: Wet, made product \* reliable in use \* fully Manufacturer: Oversor

RRP: 559 99

Requirements: Falcon, 1Nb memory (more recom

Const (post do with more presets \* Video Mode

## Easv Text

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## The Supreme



**Andrew Wright** upgrades to the second incarnation of Video Supreme, the budget priced video titler...

hen Video Supreme first appeared, it offered some staggeringly creative effects that didn't require a massive bardware Investment, Indeed it ran ou to happily on a basic 5201 As a video titler, it was designed for generating intro senuences for video tanes. It featured a wide range of dissolves and wipes that could be combined with your own low resolution spreens, and sound samples to create lengthy animated sequences such as titles and credits.

Not everyone wants to create video intros, of course In fact, I'd bet a month's beer money on the fact that a good proportion of existing users never take Video Supreme anywhere

near a video recorder Video Supreme is much more than most a vulso titler - tr's a real multimedia experience and great fun to play with. You can create demos and show them off to your friends or

build up slide shows with special effects using digitised or scanned pictures of the family (and anything else you've collected over the years, for that matter). You can also use rolline demos The male Editor module is where you eank un our sequences - Video Supreme's equivalent of the kitches.

as adverts for your goods and services, intros and instructions for your own software, and boot sequences for disks.

Video Supreme 2 adds a lot of extras. The basic interface is much the same, so no new learning curve again Version 2 supports sequences up to 200 frames in eight and sound samples up to 200Kb in size from 6-20 kHz It now offers ohip music as well as the samples and there's graphical VU metering to get lt just right

The author has added many more ways of displaying and dissolving screens with overscan and even semiautomatic animation effects. Text can be scrolled on and off the screen in a variety of ways too

Why not add some muste? The two supplied support disks have loads...

Need some help? It's clout there in the help module. funnily enough

#### How do they do that?

Enough of the what - let's have some how Video Supreme has six main elements or modules. The nub of the program is the Editor module where you do all the real work - import screens, specify how to display and dissolve them,



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HUSIC NO	LORDED MUSIC HICKED . NUS LORD PLRM	EOLOUR RED	COLOUR MHETE	COLQUR DLUE				
FRAMES	VU SCREEN	± ±	×-Pas	보 호 X-P05				
PLRS DSIST	SELECT LORDED SCREEN	=  ±  =  ±	4-602 = #	브 호 9-POS				
Marie Polorida	LORDI YIEW			25-21				

## Winner



add time delays and samples or music. and test each frame individually

From the ms n menu screen in the Editor you can access three smaler screens to handle samples, music and fonts and apply more settings and effects. For fonts you can tell the prodram where to start the message (contained in a text file) scrolling across the screen, at what speed and width There aren't that many fonts supplied with the nackade and some are hard to read but the bar font is superb - I love it!

The music screen offers a number of options, mainly revolving around how and when it should be played during the frame cycle. This is important because you might want a drum roll to start while a screen appears, for example, or a thunderclap to coincide with a flash of Inshrolog. There is also an ontion to flash colours when the music plays. The sample screen gives similar control over sampled sound. The program recognises 19 different packed file formats and there is a separate Music Player module for testing and timing them

Next comes the Frame Creator, a olever little gadget that lets you create semi-automatic animations and effects similar to morphing. For example, you add a screen to the list, select an effect such as zoom and the next four frames are created by repeatedly zooming in on the original. The four new screens are then saved to disk. The warp effect lets you wrap an image around a shape and can be used to create things like spinning globes. Digitized or scanned images with more than 16 colours can also be imported and are turned into

If you've got a sumpler carreides.

you could even add the latre

prefer the standard GEM one but at least the custom versions make life a little easier when tracking down samples and screens. One thing about the interface as a whole though - it's almost entirely mouse driven so you can be up and running in no time at all

Incidentally, the sixth module is a Help one with annotated screens for those who do find it difficult. Useful that, especially as the manual is a bit of a disappointment, in 88 pages there isn't a single screenshot so you've got to wade through with the program running to have a chance of understanding what's going on

grevscales but keeping back half the palette for overlays. Another module, the Sequence

Preparer, is used for putting together

sequences on disk and specifying how

they behave. A freeware runner pro-

gram is supplied so you can give away

your work. There is also a Ouick-Try module that controls sequences while playing to video or plays sequences with large samples that can't be replayed in the Editor due to lack of memory The interface is pure STOS and about as non-standard as you can get There

are two different file selectors and

they're as had as each other - I'd much

Video Supreme 2 isn't a total solution - you need an art package to create the screens in the first place and a sampler for recording speech and other

The file selector. No comment absolutely no comment...

#### Thanks for the FX

There are no less than 75 special screen effects in Video Supreme 2, which gives you some idea of how creative you can be. Most of them can even be confinered individually so the real number nechably rose into the hundrale!



e are more ways of apttino things of and off the crean than you can chake a stick at - this one appears as a jumbled mess and then gradually unscrambles itself om the left to reveal the screen



for dissolving screens away



text across the screen at the same time as background animations are going on. The whole process is extremely smooth.



This font is just the bees kness

offects - but it comes pretty close For a program that rups happily in 1 Mb of RAM, it can achieve an awful lot. As a stepping stone towards multimedia, that elusive subject we hear so much about Video Supreme 2 is 30 quid very well



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and Flat screen. This monitor is true high resolution monochrome programmes. The included DESCRIPTION OF THE RESIDENCE OF

er or a 3.5mm line out jack.

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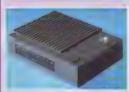
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### From Mini to Maxi

Hot on the heels of its award-winning MiniS hard drive, System Solutions heads for the big time, Ofir Gal follows...

ard drives are big business now, and System Solutions has just unleashed its latest model - the MaxiS. The package includes the excellent HD Driver hard disk software. well known for its speed and reliability, and an optional host adapter for ST

The MaxiS is slightly larger than the MImS and is made of metal rather than plastic. The unit is designed to stand upright and measures just 250 x 150 x 75mm. Usefully, it is capable of housing two 3.5" height drives. System Solutions has various configurations in



The Many's halde two

3.5" units a hard

Magneto-Optical technology Vous part essent hause a consbination of the two. which is ideal for backing up the

date from the fixed drive to the removable. All drives are of the best quality from Quantum, Micropolis and Fulitsu. AV drives, suitable for hard disk recording, are also

A quiet fan is built into the unit with an optional heat senso to control fan speed. The MaxIS features a power-on light and an activity indicator. Two SCSI ID selectors are located at the back along with a dual SCSI port and a power switch. The ability to add a second device is a definite winner that will save you money in the long run Drives come formatted. partitioned and ready to use. Yen looks like another winner





available

Manufacturer System Solutions Contact, 0181 693 3355 RRP: From £229 for 120MB unit (add £40 for Remurements Any Stan computer

Pros: Slick and modern design a can house two Coms: More expensive than the MiniS

6666666666

MAXIS

## Degasart 3

**Andrew Wright brushes** up on his art with a new tutorial package.

f you've ever seen all those wonderful commuter graphics in game intros and demos and wondered why your own masterpieces look nothing like them, Decasart might just interest you

Degesart is the third in a series of graphics tutorials amed specifically at ST owners. It shows you how to make the most of a 16 polour system, use patterns and so on to create the impression of more colours and how to do things like anti-aliasing, dithering,





Drawing a face

is easy when you know how ..

Anti-aliasing is the only way to beat those jaggles.

colour-eyeling, random and repeat patterns. It also devotes plenty of time to work with text. Although based around Degas Elite it ign't necessary to own that particular paint program as the hints, tips and techniques are all

Although you don't need disks 1 and 2 in the series either disk 3 contains a number of references to earlier tutorials



images and tutorial screens plus related text and the two media are linked using a hypertext-style viewing utility There are also 14 GDOS fonts included ready for use in Desas - complete with the right ASSIGN SYS files

Many of the Jessons in Degissart 3 revolve around text effects using GDOS and SpeedoGDOS fonts Other specific topies include figure drawing, construc-

tion of faces, using grids to copy images from other sources and how to fine tune parts of an image using anti-aliasing and smoothing. The text is a little light and some lessons rely too heavily on example rather than real instruction. On the other hand, the author certainly knows his stuff If you don't, this looks like an excellent way to start



Requirements: Any Atari, 0.5Hb or mon

## Positive thinking

A single flooring lcon panel contains

all of the vital tools

and the remaining

fortably in the menu

ontions can be found nestling com-

har The sparse

interface is very

decentive. At first

it's hard to get too

excited about the

level of power on

change with time

offer but that does

This is partly down

to good integration

(in the case of block

handling) but some obscure keyboard commands don't



#### Positive Image promises simple pixel manipulation for the masses. Nial Grimes takes a sneak peek...



othing short of a revolution has taken place in the Atari image processing arena over the past two years Spurred on by the release of the Falcon, softwere publish. ers have fallen over themselves to offer more and more powerful software

Floppyshop have opted for a different approach Positive Image isn't out to stea, any crowns - it simply offers the basics, bundled tightly with a few original extras Let's see whether the vision

Positive Image is part of a new breed of Atari software that's happy to run on just about any ST yet still takes full advantage of the extra power offered by the Falcon Many of the effects filters are accelerated by the DSP and all screen modes, from mono to true colour are accommodated with nanache



Text and Images can be easily combined when GDOS is

Bégier and autotraced blocks add muscle to Pasitive

(Inset) Eliters can be applied to any Image thanks to the Internal conversion facilities.



help out much in other areas. However, the interface is currently being tweaked. so it may not be a problem in the full Image's spec sheet. release. Some irritating bugs are also being ironed out as we speak.

#### Pixel-bashing

Given the sheer number of image formats used on the Atari platform these days, it's nice to find that a reasonable amount of files can be loaded without resorting to GEM-View or Imagecopy JPEG, TIFF, NeoChrome and many more besides are all detected automatically and once loaded, can be converted to a different colour depth - this is particularly handy as the filters only work on grevscale or 24-bit images. A range of six standard filters are

built into the program itself, and plenty more can be loaded as modules from disk. Braver pixel-bashers will no doubt relish the opportunity to edit filters directly through a friendly dialogue box The overall speed of the program varies from acceptable to reasonably fast intelligent screen updates help out when switching between multiple images, but both loading and filtering are a bit tardy

When it comes to block handling, Positive Image is a bit of a wiz - rectangular, elliptical and bézier blocks are all catered for and it can even trace around areas of solid colour automatically Naturally, sections can be out and pasted between windows, and filters are easily applied to specific areas of an image A range of overlay effects is also provided and blocks can be rotated, sosled and warped in a number of ways. This

excellence is complemented by an 8-bit masking system of sorts. The preview is nearly at an end and we still bayen't mentioned colour printing, virtual memory or the GDOS font support Other nest touches, such as window minimisation, lend quite a mod-

ern feel to the whole application Despite some niggles. Positive Image is shaping up into a solid contender in the budget image processing market The peckage is rough at the edges right now - which is only to be expected at this stage - but a few features have yet to be added and the vital signs are looking good

> "When it comes to block handling. Positive Image is a bit of a wiz."



An infinite variety of effects are possible with the help of the edit filter dialogue box.



Requirements: Any Atari, 1Mb of memory minimum (2Mb r recommended.



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## Dream



deceiver...

Obsession's first real challenger has arrived in the form of Pinball Dreams. Armed with a healthy collection of Tommy lyrics, Nial Grimes gets down to serious pinball...

Simplicity has always been pinball's main strength and Pinball Dreams continues the tradition new players can bash the ball-bearing around while seasoned hacks can go for the big bonuses Of course, there isn't much to aim for beyond a truly enormous score and a free ball, but that's never posed much of a problem for original areade fans

In terms of control, the Shift keys become flipper buttons and you can give the table a nudge by prodding the space bar, A good dose of caution is needed, though, because too many nudges lead to a penalty and the flanpers pack up. And no, the Falcon can't remove you forcefully from the room'

Lots of gloss

Enough gloss has been added to make the whole experience enjoyable. Useful messages seroll across an authentic display and graphically it's nicely done.

although not up to Obsession standards. The sonies also back up the atmosphere of the tables well, from the bubbly music that trickles along behind Steel Wheels, to the menacing tune used in Nightmare Evidently, these have been ported directly from the Amigs, but the quality is reasonably good. Unfortunately, some parts of the game are marred by a slight crackle

from the speakers Additionally, the current version of the game only runs on RGB monitors, but a VGA release should be available by the time you read this review. Let's hope they ditch the manual protection

Pinball Dreams is about as close as you can set to a traditional ninball experience on the Falcon. Waves of nostalgia come flooding back as you get quickly sucked into addiction and it is very playable. If Obsession hadn t aiready taken the world by storm, we would be looking at a winner Lowever. the fact that the STe can perform similar - and better - trioks does take the edge off the encounter, and you're left with the nagging feeling that Obsession on the Falcon is going to offer more Even so, it is a quality game and given a few plays, you are going to have trouble stopping those flipper fingers





inball has a special place in

the heart of every areade

fanatio and one game has

become synonymous with

authentic ball-bouncing

action - Pinhall Dreams on the Amign

Before its initial release several years

ago, nobody imagined that a computer

same could capture so much original

atmosphere in fact it pretty well re-

rumours, a finished Pinball Dreams for

the Falcon is finally with us in the flesh

tional affair, and each of the tables look

as though they've been dragged directly

from a '70s areade. Four tables make up

and goals lightion is set in space. Steel

Wild West and Beat Box uses music as

the game, each with a specific theme

Wheels takes you on a trip into the

Pinball Dreams is very much a tradi-

defined the genre After months of

Let the postages fest commence!

The sound effects play a bin nort in Pinball Dreams - alt are themed to suit the tables

Evil sound effects

contribute to the

atmosphere of the

Nightmare table.

and sombre graphics

Space travel is the

theme of Ignition

- Hight all of the

letters to net an



Contact: (01634) 710788 Requirements: Atari FalconO30, RGB monito slick gameptay
Cons. Sughtly flawed sound • not an Obsession

# Captain Sensible Impact Software's Sensi-bashing soccer game has a mudcaked Nial Grimes checking out virtual cheer-leaders...

animated despite their size.

carefully oushed into the screen borders. Digitised thweeks and thuds rise above the noise of the growd and add

with a mee large view of the pitch The fire button forces a player to pass or tackle in the usual tashion and the player nearest the ball is always inder joystick

Only in one area does the game deviate from the standard formula the hall and then deciding where you want it to go, Team as you press the fire

button - a realistic system that does take some getting used to. The play environment has been lavished with s.m.lar attention Never does .. low ball pass through players and you can forget about that ballistic kick going into the net - it will simply sail over the bar as it ought to. Try hard enough and you can even bounce the ball off the cross bar, in true world oup style Overall, the sameplay is more true to life than Sensible, but it's also slightly more complicated - I'll let you decide whether

that's a good thing or not The graphics slide neatly into place behind these play-mechanics. Look closely and you'll notice that the wellanimated sprites are slightly bigger than the se used by Sensible, but you see no

Team is unushamed in its attempt to blow Sensi out of the water and in some ways it succeeds, you've got a game that plays well, and is backed up by enough technical achievements to give the Terminator 2 team the frights. Impact is es, by the time the game hits the shelves nevt month. It should boost weather conditions, a kit design studio and several other auxiliary features league and cup competitions among them The game is happy to mit on

atmosphere to the same and the title

music is equally impressive



The gameplay is fluid and fast thanks to the STe's hardware scrolling abilities

both the STe and Falcon, but a Falconenhanced version will be released later

Team is shaping up into a hot prodnet. The technical aspects of the game are beaut fully done and push the STe to the point of destruction. Here's hopmg that Impact can squeeze enough features around the edges to send Sensible and back Off into the relegation zone





realistic than

Sensible Sarces

to get used to.

and the new system

The crowd react

loudly to any

excition play

and are lightly

animated for a

life-like effect.

enming - there is no question about it Nothing before had contured the sheer excitement of sport on screen and it's still one of the best ST sames ever released. The basic lives Off ethos of fast action and a good view of the pitch was continued by Sensible Soccer, which has remained the undisputed king of ST soccer games, untinow, we are told Yes, Impact really do believe they have created a game that

But Team is more than just a Sens

will blitz Sensible wannabe - It's been written for the STe from the ground up. and oozes class from every pore 1 won't hore you with too many technical specifications, but suffice to say that the scrolling is smoother than a politi-

cam's patter and is backed up by sound effects running at a full 50kHz wour STe just can't do any better than that

#### Dribble, dribble, dribble

Anybody who has played Sensi or Kick-Off will be immediately at home with Team's format. It uses the standard

## Cannon Fodder

The irreverently titled Cannon Fodder finds

its way onto the Jag. Iain Laskey

marshalls his little men and gives

them their marching orders...

Promotions are handed out at the and of each level and the manual includes a key to the ranks



escophony The graphics seem to be unchanged from the computer versions The shading is fairly coarse with few colours being used. Even the ray-traced stills look like they haven't been updated The Jaguar is capable of much better than this - it's a pity Virgin didn't see fit to improve the graphics

I found the controls a bit tricky at first though things improved after a while It really gets frustrating when your troops per stuck behind an obstaole and you have to fiddle about trying to get the right angle to free them again On the whole, I still think the same is more suited to control by mouse

The early missions are designed to break you gently into the eams

Where this game really scores is in the "just one more go" stakes. Every time you die, you just know you can do better next time Each level adds new features and when trip wires blow you up. you just have to try again until you find the best way to complete it

Cannon Fodder won't get top marks for its ported graphics but when it comes to sheer addictive gamenlay, it's a thoroughbred It isn't a game that'll have your friends oohlog and salung but when they do come round to see it they won't be moving on in a hurry



annon Fodder is the very first Jaguar title from Virgin and as It has been released on mat about every other platform noluding the ST - it needs little introduction. When you first start the dame, you are treated to a bouney theme song that a rather reminiscent of Age of Base Press the fire button and the military mayhem begins

The came consists of 24 missions. each with up to 6 phases. Each mission through, you can save your current position. With so many missions to det through, this is definitely essential

guns but you can bolster up your kit with the grenades and bazookas you pick up along the way. These can be a bit pard to use in the heat of battle though, requiring you to hold button B while pressing button C. As in real life you've got to be cool under fire

Each enamy soldier is dispatched with a blood ourdling variety of sure flame and debris Later missions add cles These are a bit tougher to kill although you can always board the ourself and turn the tables on the



enemy if y are new ye rean had the Supa Dupa Boostas which add such cute things as heat seeking missiles and bullet-proof vests for your troops

pes ningle, arctic waste desert moorlands and underground Each has its own set of features and traps. The It can be embarrassing to pick on a single enemy with your team, only to find he's armed with a bazooka or grenade new features including a variety of veht- dead bodies bounce around, exploding trees fly across the screen and your vic

> excellent from the various background noises like trickfing and the jungle

A time of eager recruits await your instructions at Boot





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"If you want a multitasking system that works symply and realiably, then Magic is for you ST Review, June 1994

MagiC saful TOS replacement, a very fast disk filling system; has accelerated serial AIDI and or nting routines and is, of course, a true pre-empt ve multitasking system. MagiC Desk, a replacement Desktop, and a powerful command shell are included MagiC runs on ST, Mega and TT computers with 512Kb, but 2Mb is recommended for a useful working system. The Facon version is expected to be available by July 1995

ST User, February 1994

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arn your computer into a 32bit system with the PAX68/3 and a 68030 processor The 32MHz clock 32bit wide IOS and a 30Kbyte cache will This is faster than the Falcon and the TTI Cook speeds of 40 and 50Mhz are possible. The use of recycled processors makes this upgrade very affordable without sacrificing reliability A 32b t 128Mb FastRam board and a 24bit colour graphics card are now available PAKAR/3 board on v. no CPU

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639 95

ST FORMAT Awarded 97% Use your Atari with EASE Replace the old Atari Desktop. This program could not be more appropriately named. The right click replaces the double click ?conize windows for Instant access to groups of files. Ease is aware of multitasking and comes with a sophisticated Colour Icon Editor Works on any ST, all TOS versions, and with any display and graphic card. Ease (RRP £49 95)

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Do you want to unleash the full potential of your machine?
Nial Grimes slips into his Star Trek costume and investigates the software and hardware that can change the face of your ST — full ahead both Mr. Sulu...

timeless design is extremely difficult to achieve, but Mari struck gold when they dreamt up the ST. In

many ways its the Volkswagen Beetle of the computer world - a little quirky by modern standards, but still a remarkably usable machine. This long-

term success is largely thanks to an efficient hardware design and an uncomplicated operating system. After all, the ST featured a fast. bitmapped sereen display while PCs were still wallowing in the depths of text-based graphics adapters

Mup the ST. In The ST's operating system Lanown as TON, also lacks the begange carried by its pers. This has a lot of benefits to spend anywhere near

hy its peers. This has a lot of benefits to the bonic user—if you don't need fort support, there's no need to waste memory on

SpeedoGDOS and much the same applies to networking and so on. All of these features can be

The quality of modern sharaware is astonishing - Kandinsky is up with the pros in terms of features



£100 on software to

have a good time"

# Generation....



Gluen the clobt

upprades, an ST can even run Calamus SL and software doesn't come much more powerful than that!



Games galore! Games no longer form the backbone of the ST scene, and the market has shrunk considerably over the past few years. But this luli has stirred some independent producers into action and we've seen a steady stream of outstanding quality titles appear. STe owners have been regaled by Obsession - a truly outstanding pinball extravaganza - and shortly Team will hit the market, boasting similar support for the "e"

the excellent Douglas Rockmapr, is now supilable at 90 oriess

Owners of standard STFMs can also turn to budget software for entertainment. Namy of vestervear's classics are available at potstandingly low prices and you can be sure that all play rust as well as the day they were released. Added to that. Budole's entire collection of Jenneware games has recently been re-receased as freeware (the distributors remain the same). This means that names such as Douplas Rockmoor are available at rock bottom prices (if you'l excuse the oun) Others aren't quite as memorable but your PD library should be able to point you in the right direction.



Team is just one example of the quality cames that are now appearing on the STE

don't guzzle valuable speed, memory and disk space when you don't need them

This all adds up to a design that still has a lot to offer after ten years of notive service. Even if you are getting Roby feet, there are plenty of ways to rejuvenate an older ST and keep it on ton of the job in hand, and you'll be surprised at how little the whole operation can cost

# Introducing the hard line...

The words "computer" and "hardware" usually inspire thoughts of hire purchase and a healthy overdraft facility but, surprisingly, there are plenty of

hardware buys that don't demand mountains of eash. Even something as simple as a second floppy drive doubles the storage available to your appliestions and makes a huse difference when using software such as Timeworks Brain-numbing disk swaps are a thing of the past and when it comes to smaller applications, your program and data disk are instantly available at any time External floppy drives are easy to come by, but Ladbroke Computing's Zydec drive is well worth investigation at around the £50 mark

If you find yourself using the ST's business personality more and more often, there are two hardware options

## Hardware Recommendations

A little money spent on hardware can yourself unur ST drastical.v. Check out this little lot...

Second floopy drive A second floopy can't compare with a hard drive in terms of storage capacity, but it can still save a remarkable amount of disk swapping. Besktop cooving becomes a pleasure and Timeworks is transformed - all for ESO.

### Mid-range

High resolution months: If you spend any amount of time in front of your ST, a high resolution monitor is well worth the dosh. The greater definition and clarity are well worth the £120 or so. Professional

Hard drive Almost any hard drive will transform your machine, but System Solutions' MiniS wins hands down in terms of looks and practicality. It's available in a wide variety of sizes and comes with a two-year warranty.



space and resigns sprawling disk collections to history The state of the state of



from a high resolution display - Calamus refuses to our on southing level

that really make sense - a replacement mouse and a mono monitor. The Atari mouse is commonly regarded as the most useless piece of hardware ever devised (easily edging out in front of the Ronco Record Cleaner) and a replacement is well worth the effort A good quality, high-resolution mouse can cost less than \$15, and if you are worried about repetitive strain injury a tracker



ball can be bought for around \$30. Artists and designers might prefer the flexibility of the Tabby graphics tablet. which has recently been treated to uppraded software

An equally good move for serious users is a high resolution monitor. which provides a much sharper and more relaying image than the alternative of a TV or polour display. Atari's own monitor - the SM124 - is absolutely superb but sadly it is becoming more and more scarce, even on the secondhand market. Most of the larger advertisers in the magazine offer their own alternatives and you can expect to pay in the region of \$120. System Solutions' SM14 is a safe bet but shop around to find the best deal

If an extra floppy drive drastically improves the software you know and love, a hard disk can literally transform it. Enormous floopy collections instantly become a thing of the past as each and every package you use is moved within double-clicking distance. Most drives these days are fast, reliable and a doddle to set up. The range of suppliers is wide and Ladbroke. The Upgrade Shon, System Solutions and others all offer their own brand of drive



Protext combines newer with a healthy turn of speed and it basic ST system

scene is nothing if

not diverse from

stitch, you'll find

something to suit.

genealogy to cross-

# Softly, softly...

Simply changing your software can give your machine a new lease of hise I wonder how many people are still struggling alone with 1sr Word Plus and blaming the lack of features on their STo Open your eyes and you will find that the Atari can compete on a practical level with any other machine - Protext may lack graphical niceties but it provides a truly awasome range of features and it's lethally fast on any ST with a megabyte of memory Panyrus has also established itself as an excellent document processor and version 4 looks set to reinforce its position when released this year

But you don't need to spend anywhere near \$100 on software to have a good time. In fact, one of the main attractions of the ST is its portfolio of

# Second thoughts...

Where computers are involved, "value for maney" is purely a relative term - even budget products can seem expensive at times and depreciation is: often frightenion. Classified columns are an easy remedy for a threadhare wallet - you can buy just about anything on the second hand market and save an awful lot of money. As users upgrade their systems or switch to Falcons, they invariably want to off-load their old equipment as



picked un for buttons second-hand.

The first rule of buying second-hand is thus: do not be tempted to pay too much. As a general rais, a used piece of software or hardware is worth about half of the purchase price, but bear in mind that you will need to pay a premium on very popular items. Never be afraid to make a low offer though - you can always volunteer more if It's refused

Buying anything second-hand involves some risks and computers are no exception. When it comes to hardware, the main thing is to make sure that what you are about to buy is working properly. Software is less of a problem, but technical support is sometimes only available to the origina, buyer and you may wel, be out in the cold when it comes to upgrades or bug-fixes. That is a worst case scenario, but if in doubt, check before you buy and use any potential problems as a bargaining point.



Boot sales are a gold mine of classical software - games often sell for a couple of ouid!



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We prefer to be known as a service rather than a business attractively proteed independent applications. Just about every type of software has appeared on the ST over the years, You can outle easily trace your americation of the ST over the years, turn your hand to embroider with Eaw Stich, or bash out a junk time country of Storm Tracker and all of these examples slip into the sub-SLO bracket Education in well externed for too — Goodman's newly released AT For Kall passing the ST of the ST of the special protection of the sub-SLO than the sub-SLO state of the

### Smooth operator...

The STs operating system is generally quite reliable, but older versions are beginning to show their age. Fortunately, there are several ways to bring your machine bang up to date. Attaris own TDS 2.06 improves the ST in many regards and majoralns almost full competibility.



If you've got enough spare memory to run several applications together Geneva and Manif are a sound chairs



TOS 2.06 provides a much-Improved desk-

Alternatively, you can opt for a software replacement. The brown mis-politon variables are replacement. The brown mis-politon variables are replacement of the Politon variables are replaced from the politon of the po

The ST has always rejustered strongly on the DTP Richter scale and this is set to continue through 1995 Timeworks is still a remark ably strong contender in the ense-of-use stakes. and Easy Text Pro Vector even hosere Spendo GDOS support You don't need to

You don't need to move too far up the price scale before some real power begins to appear Calamus 1 09 ohews its way through mono desirtor publishing tasks with sivele, and DA's Vector Lite will soon join the low-cost brigade Both can be yours for under the magic \$100, by quite some margin in the case of

The ath antage of both these puckages is that the boast bigger brothers you can experiment at a home level safe in the knowledge that the expertise can be carried on to a puckage capable of professional results. The latest release of Calamus St. even boasts many features conveniently "horrowed" from Outs/Koress on the Macintosh'.

Naturally, the ST also hoasts a healthy back-entalogue of other business applications. If money is tight pickagies such as LDW Power and Superbase Personal are ideal -t cimps can supply the pair for under \$20° And, when you want to more on to some thing more powerfol. Hisofit's Twist as more than willing to take the strain in the database state.

And we haven't even mentioned the hight could's spilestions that continue to stream through shareware channels. Even the strictest budget can usualls stretch to a ten or fifteen pound registration (see and most types of software find their way into the public domain in some form or another Marcel and



Timeworks 2 is still a remarkably usable package, being both easy to learn and relatively moverful.

Software Recommendations
It's hard to compress the hope range of available
ST software into three best buys, but you certainby won't go wrong with any of the following...

### Budget

Obsession from Merlin FOL Obsession is probably the best games ever to grace the STe, and contains the very spirit of pinball. It's the sort of title that wraps itself around your psyche and won't let on

# Mid-range

MYOL from System Solutions MYOL gives the ST a shot of undiluted speed and accelerates most 6HA applications beyond als recognition. If you use Speeds6005 consider version 3, which offers superb speed alongside support for TrueType and

### Professional

Protext 6.5 from Arnor In terms of speed and sheer word-crunching ability, Protext 6.5 knows no equal on the ST. At the new, low E74-05 price point it's one of the best value word processors you can buy — well recommended if you can live without graphical comforts.



NVDI boasts graphical speed tremendously and is compatible with most GEM applications.



Obsession is pure class - if you are lucky enough to own an STe I suggest you grab a copy immediate.y.



DB-Writer both make a good budget word processor GEM-View and Speed of Light are both masters at graphics manipulation and the list soes on One program particularly worthy of note is Kandinsky which has understone major changes in the last month and now boasts Calamus CVG support alongside a whole bost of other exciting features DA's Vector had better watch its mil'

### Up and over!

One of the buggest criticisms levelled at Atari over the years has been their failure to upgrade the basic ST However, this lack of action on Atari's part has led to a thriving ungrade market and there are very few aspects of the ST that cannot be unproved or accelerated

n some way or another If you are using a standard 520 your first step should be a memory upgrade This simple and inexpensive move will improve your machine in almost every area - even stepping up to a megabyte opens up a wide range of entertainment software and some professional applications A capable of blazing two-megabyte expansion can cost under \$70 and can also net some performance..." moressive rewards when running business software Calamus 1 09 will rarely report an "out of memory" error given this much space and you can also begin to think about software such as Papyrus (though only with bitmap fonts). The Marpet XtraRAM boards are recommended for conventional STe the standard memory modules used by STe's are widely available and are a piece of cake to fit

graphics packages -If your baby ST is used for more Speed of Hight and than entertainment, the next most GEM-View are in a important upgrade you can make is class of their own



NVDI - the closest you can get to software 40-faster stripes. GEM applications fly and the latest version includes a full Speedo(4)OS replacement (for use with applications such as Papyrus)

The time may come when even NVDI docsn't provide enough speed to drive your more powerful applications

effectively. In this case, a hardwaru accelerator such the T28 or T36 is invaluable. The former costs less than £200 and yet increases raw speed by a factor of three Bolt on the newly released Multiboard and you can think about enhanced graphies, a PC-style hard disk

interface and superb memory expansion possibilities. Even if you don't need the power now, it's comforting to know that your ST is expable of blazing performance - and much more

## The final frontier

"Your ST is

The ST boasts a

wealth of shareware

Technically, the ST may no longer be on the cutting edge but it's still an incredibly good all-rounder and the possibilities for expansion are almost limitless

Yes, your ST's future is available right now in the form of upgrades, exciting new software and power-boosting hardware Options start with a public domain disk costing a couple of guid and end with a combined accelerator, graphics card, TOS upgrade and hard disk interface registering several hundred more, such is the flexibility of the come to know and

Believe it or not. the year mesoning of ST users have arely scratched the surface of their computer's potential Hopefully we've given you a firm idea of where your ST stands and the improvements you can make for relatively little outlay Remember, every journey of discovery starts with the first step; make that sten!

### Ungrade Recommendations The ST is expandable in a wide variety of ways. Here are a few of the better notions.

# Budget Hemory poorede. In many cases, the more man-

ory you throw at your applications, the better they will run. Even if you are not using powersoftware, a simple upgrade to one megabyte from a supplier like Compo can open all sorts of software possibilities.

# Mid-range

7-board 705 upgrade If you are still strugg.ing along with an elderly ST, a TOS upgrade is wellworth investigating. Not only does it fix codies of bugs but you'll also get a much better desktop thrown into the bargain.

# Professional

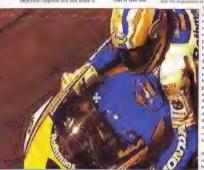
T28 Accelerator from System Solutions For a respectable speed increase with very few compatibility problems, the T28 from System Solutions takes a lot of beating. It's available for the ST or STe and is also fully expandable through the Multiboard.



Banish those "out of memory" messages forever (well, at least ten minutes) with a cheapy upgrade



The above statistics show how a humble ST compares to the T28 - humble indeed!





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· How old are you?

12 years or under

13 - 17 years

☐ 18 - 22 years

☐ 23 - 27 years

1 28 - 32 years

33 - 42 years

1 43 - 52 years

3 - 64 years ☐ 65 or over

. Where do you live?

South East England South West England

☐ Midlands

North East England

North West England

☐ Wales

Scotland

Northern Ireland

T Eire Europe

Rest Of World

Please tick one box unless guided otherwise.

# WHAT COMPUTER DO YOU OWN?

. What Atari machine(s) do you own?

(you can tick more than one box)

☐ 520 ST/STM/STF/STFM

☐ 1040 STF/STFM

☐ 520 STe

□ 1040 STe Mega ST

☐ MegaSTo

C TT □ Falcon

☐ Lynx

☐ Jaguar

. How much RAM do you have? 0 5Mb

CI 1Mb

☐ 2Mb ☐ 2.5Mb

O 4Mb Over 4Mb

· What hardware do you own/intend to buy in the next year?

Own Intend to Buy

Second floppy drive ō Memory upgrade Hard drive  $\bar{\Box}$ Printer MIDI system  $\overline{\Box}$ Mone monitor m Colour monitor TOS uperade ō

Scanner Modem Graphics board

O Accelerator board Vldeo digitiser Sampler CD-ROM

. What do you use your ST for?

you can tick more than one box)	software and hardware purchases?		
Word processing	Yes		
DTP	☐ No		
Graphics	S		
Music	<ul> <li>Is this first issue of Atari World good value for money?</li> </ul>		
Games	☐ Yes		
	□ No		
Educational	- · · ·		
Communications	<ul> <li>Do you like the idea of having three separate magazines?</li> </ul>		
Databases	Yes		
Home accounts	□ No		
Business	☐ No		
	- White		
• What display do you use?	Which would you prefer for Atari World?		
TV TV	An optional Reader's Disk at less than £3 per issue		
Mone menitor	☐ A Cover Disk at about £4 per issue		
Colour monitor	. With the boundary of the second of the sec		
	Which have been your favourite and least favourite		
How long have you owned your computer?	sections in this issue of Atari World		
Less than a year	(you can tick more than one box)		
Up to two years	Favourite Least Favourite		
Up to three years	□ News		
Up to four years	Reviews		
Up to five years	☐ Features		
More than five years	Makin' Music		
<i>y</i> ,	PD Arena		
How much do you intend to spend on products for your	Comms		
computer system in the next 12 months?			
	Programming		
Up to £50	Q&A		
\$50 - \$100	☐ Talkbuck		
\$100 - \$200	ST Source		
1 £200 - £300	Atari Pro		
\$300 + £400			
Over £400	<ul> <li>How computer literate would you describe yourself as?</li> </ul>		
	☐ Very		
TARY WORLD	☐ Average		
ATARI WORLD	Below average		
If you previously read Atari ST Review magazine, how			
yould you compare this first issue of Atari World?	<ul> <li>How have you found Atari World's editorial style?</li> </ul>		
Much better than Atari ST Review	☐ Too simple		
Better	☐ Just right		
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Falcon			
	Please send your completed survey and competition		
<ul> <li>Which German company has just launched a Falcon Mk II?</li> </ul>	entries (to arrive no later than May 15, 1995) to:		
Which other German company produces Cubase Audio?	Atani World Survey Line 3 Second Fare		
- The state of the	Abbots Rinton, Huntingdon PE17 2PF		

Do you expect Atari World to directly influence your



A hand scanner has always been one of the classic addions for Ataril users. Naksha, the company behind our scanner offer, is saily no more – but its reputation for reliability was one of the best. We have been fortunate enough to secure filmleds stocks of these excellent hand scanners and can offer them to you for just \$99 including VM.

In a previous review, Atari World's Andrew Wright and described it as "bilstering good attain" when it was prized at owe r£110 - it as "bilstering with a time software bundled landere wild not stone for there in his praise: "a eligible in action. best hand scaner for the 5T... super's grey scale as on be created for DYP... highly recommended", were just a few of his other commendation.

We only have a limited supply of these scanners which are availtion on a first-served basis. If you want to order by post then please ring our sales team first to check availability. If we have stocks, you will be able to reserve your pack before sending in your order.

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# Papyrus 4 The Inside Story



apyrus has urguably grown to become the best word pricessing package for the Atari rango, it has

that leaves most programs behind, of grams leavind, of the prosponditions costing, many times more The design is competely non-modal, allowing the user to open several dialogue boxes at the same time. This feature is extremely useful when using the spell checker or when trying out fonts and leaving the spell out fonts and seven times of the proting of

Papyrus has

Despite the fact that Papyrus only appeared in the UK last year, it has already won the support of many users. It is, without a doubt, one of the best programs to appear on the Atari platform and it is just about to get even better, as Ofir Gal reports.



the implementation is cumbersome It has no support for macros and lacks that basic writer's companion, a the-

Neither is there a word count

Auri word processors

duces top quality

output Papyrus

even manages

background

printing

80 YOU

The program is multi-tasking friend-

ly and is a clear example of "clean"

GEM code, it works with almost any

the early test versions of MagiC Mac-

system modification. It even worked on

Being a Speedo based application it pro-

feature or text analysis for correction of the most basic typing errors like double spaces and sentences that start with a lower case etter The hyphenation function is not flexible enough and it does not work very well in English. Nor does Panyrus handle colour images

although it can print coloured text. To cap at all. Panyrus can be slow operations like search and replace can take sees in long documents, but other functions such as printing are very fast. It also uses outte a bit of memory and requires 2 Mb or more of RAM. The whole document is loaded into RAM which can be a problem if your doouments contain a large number of images.

## The Future

The good news is that Papyrus v4 is currently under development. The program is being completely re-written and

### **ROM Software**

The people behind Papyrus are Util Ramos and Christian Rieber, Ulli handles the business side of things and is also closely involved with the pengram decion. Christian is the person that actually wrote the program that began its life, surprisingly enough, as a label printing utility.

Christian started programming on the 8-bit Atarl machines, He studied computer science and specialised in artificial intelligence and user interface design. He even wrote a book about programming the 8-bit Ataris.

Asked about the user interface in Papyrus. Christian explained: "One of my friends had a NeXT system and I was very 'mpressed with the interface and how user friendly it was. As a result, the very first version of Papyrus featured non-model dialogues".

Papyrus I was released in 1987 and nonmode, design was a relatively new concept at the time. "I think that this is the best thing about Papyrus, it's user friendly," added Christian. "There is no point having thousands of hidden features that the user can't get at."

I asked Christian about his plans for v4. "I am now busy converting the code to E and most of the work is done. I am using the E-GEM library on the ST and while I'm certainly writing an OS/2 version for the PC, we'll continue support and development of the Atari version".

It is interesting that they those OS/2 and not Windows which is much more popular, "05/2 is a young operating system and we like it - it's a well out together user environment to work in". Christian availatinal that he new writes the code for both platforms at the same time so that any new features will be available to Atari and PC users simultaneously.

# THE ONLY A TARI COMPUTER THE ATARICOMPUTER THE ATARICOMPUTER THE ATARICOMPUTER THE ATARICOMPUTER THE ATARICOMPUTER THE ATARICOM OF MEANING THE ATARICOM OF THE ATARICOM OF MEANING THE ATARICOM OF THE A

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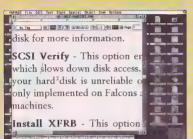


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In order to allow background printing. Paperus optionacly neas its own printer drivers. The program is supplied with a variate of drivers but you can even create your own.



mage by reference rather than storing all image files within documents as the current version does. The current limit of 256 foot families will be removed and memory requirements will be reduced Colour image support is also very likely

Viewing and editing is nossible at any magnification. Here fine adjustments of character specing are performed at a 200m souls of Anne.

### What's non-modal?

When you select a menu or a button that opens a distogue box, you are actually in a program mode. This means that you cannot do southing while the discouse box is on screen. The menu bar becomes inaccessible and clicking anywhere outside the box produces a beep. Most programs use a model design like this simply because it is simpler to implement - and over the years we've got used to It. There are no real advantages to the user except for some sneed gain.



It is possible to use the Apply button to see the effect of your settings. Very useful when trying out different fonts for avernala

Non-modal programs on the other hand, never put the user in a modal situation. You do not have to OK a dialogue box before you can open another one. The program never puts any limits on your actions. You can always do anything, even while it's printing. In practice that means that you can open the Font Panel in Papyrus and see the document while you try out yarious fonts.

There are minor disadvantages to this system. Since you do not need to close dialogue boxes, you are likely to find your screen crowded with open windows. Windows also take a little longer to appear on screen.



Penurus takes the non-modal conrect further by allowing you to customise the interface. You have the choice of Atari style OK and Cancer buttons, the NeXT inspired Apply and Revert, or both!

optimised in C. It is not well known bu Papyrus 3 was written in GFA BASIC, stretching the language to its limits Among many things, the re-write will Improve speed and memory handling making Papyrus much faster The plan is to make Papyrus run on a 1Mb system too The program will also be available for OS/2 (IBM's multitusking PC operating system)

The new version will be released for both Atan and PC and includes a host of new features. A new text statistics window showing word count and other Information will appear Papyrus 4 will support the full Speedo character set by using a new standard called UNICODE The standard allows for a obstractor set of more than 32,000 and will provide cross platform compatibility

Version 4 goes a step in the right direction by allowing for integration with the dictionary and thesaurus fone-Locatelt is not available in the UK

also be available.

allowing you to

comm at phrases The page

also being revenued to allow display of two or

pages, side by side. Papyrus will also support automat ic pair kerning and will have the option of

115.116

Papyrus v4

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Ian Waugh looks at what the future holds for MIDI file libraries.

# MIDI?



product of the musical techno-logical revolution that the Arari ST beiped to found Countless numbers of entertainers use them for backing tracks for their acts and many more people like to experiment with them at home for fun, as a

IDI files are a

hobby But soon, this may end
The MIDI file is under threat Yes,
that humbe MIDI file of this week's
Number One record you bought vesterday may soon be a relie, a thing of the
post In fact, it may already be illegal

The reason? A change in copyright laws. No-one, with the exception of the criminals who pirate software and MIDI files, would deny that a composer is entitled to reasonable recompense in

return for creative efforts. When you buy a cassette or CD, a percentage of the price goes to the artist

Prior to the January 1, 1995, you could obtain a hoster for the Mechanical Copy right Protection Scorety (MCPS) to produce and sell a MIDI file of any song. The MCPS consists of a hundful of masse publishers who effectively represent all the major pavers in the muses publishing industry. In return, you puld them a percentage of the selling price, around 8.5 to 10 per cent

This licence was not, as you might expect a licence to sell MIDI files as such, but one to sell audio topes – backing tracks. The MCPS had no licence to cover the new medium, and audio seemed the closest

## Copyright rules OK At the moment, the

situation is far from clear and even the MCPS is

unable to shed much hight on pertain sections of the new laws What is emeraend is that the nublishers want royalties for rights that , they claim, are innerent in a MIDI file. These include printing rights (because you can print a MIDI file as a soore), adaptation rights (as you can change the pitch and tempo) and synchronisation rights (because special karaoke software can display the lyrics of a song on screen in turn to the musical

The new royalties are to be 22 to 23 per cent of the retail price of the file or 15 to 15 5 per cent of the price if the

file does not have an RRP Technically "Making people pay for speaking, all MIDI the potential of a MIDI 1995 were not actually for MIDI files so file is like locking up any files produced before that time ...r. someone who buys a not now licensed gun because it has the under the new rules and so are in breach of copyright potential to kill"

In addition, uns. At the blanket raling whereby you could create a file of any song, you must now obtain prior approval for each song you want to arrange Many popular artists — or their management or pubashers — bave airreday refused to allow any of their management to allow any of their management to allow any of their management to allow any of their material to be arranged as a Milli nile.

These include Andrew Lloyd Webber, Billy Joel, Dire Stralts. Handaway, Lenny Cravitz, Mike "If the music industry Oldfield, Pet Shop Boys, Peter Gabriel. can get away with Simply Red, Take That, Tasmin charging twice as much Aroher, Terrence Trent d'Arby, The for a CD as a cassette Doors, The when they cost less to Vangelis among others. This means produce, they can get ust to spell it out that it is illegal to away with anything" sell a MIOI file of

# any song by these artists More please

So as the uncrease in royalities a fair and uset amount? That depends on which aids of the money box you're sitting. The MCPS says it is trying to obtain the best deal it can for its members—a worthy aim and the increased royalities reflect the additional rights buyers get. But who ways the percentage accountedly

reflects this? Yes, the MCPS

Notes that it is the potential use of the MIDI file that you are paying for, not the secual use you put the file to But as one MIDI file company remarked. "Making people pay for the potential of a MIDI file to like looking up someone who buys a gan because it has the potential to

Says Roland's Alan Townsend who, as Bustness Development Manager, is heavily involved in this market "The changes wii. make the currently reasonable royalities quite excessive and it would be a pity if this stilles the oreation of soud data."

He continues "It is ironic that,

while no one denies
that music can be
printed from a MiDI
fille, I don't know of
anyone who actually
does so
Most of the
scentified
markets for
files have no
need for
print and

in any
case expensive software and a
migh degree of skill is needed to turn the
mittal file into a readable score

Feelings about the new rules run high in the MIDI file fratermty. Not least because of a slow response from the MIDS and the uncertainty still surrounding the situation.

According to Heavenly Music, MIDI file libraries were promised a 7-day

turnisround on slearance of titles Some 8400 of Heaven,y's titles are still awatting confirmation after two months Said Heavenly's Joe Ortiz "You feel as if the last four years of your work has been this liked Jown the toolet."

Some members of the MCPS, such

as EMI, are even breaking awn and cognitating their own royalty deals. If this becomes it trend, a library may have to contact half a dozen publishers to fulfild a single order There is also a suggestion that MIDI Ries may only be licensed after the publisher has heard them. That means a library has to carry out the sequencing work with no guarantee of getting a locence on presenting it to a publisher.



Hits for Billy Joel but missing from MIDI Him Jhranies.

So why the sudden switch in rules? Is it just about money? The MCPS may up it's to do with rights but if there was no money attached would they be so interested? As one MIDI file company said: "If the music industry can get away with charging twice as

much for a CD as a cassette
when they cost less to produce, they can get away
with anything."

But why make it so difficult for the MID file companies? One theory suggests that the publishers want the MID file market to themselves Another is linked to publishers' peranoid attitude to print rights 'Yet another suggests the music corporations want to control MID files just as they control cassettes and CDs

Whatever the reason, and whatever the eventua. Dutcome of the situation, two things seem elem. The cost of MIDI files will undoubtedly rise and the range of awais bed MIDI files will see MID file will see the MIDI file will see the small companies that suffer and the big boys who gain



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give your creativity room to breathe.







# HISTORY in sequence



Galits (now Software Technology) was one of the UK's ST sequencer offerings along with Trackman and Virtuneo

f ever a computer earned its place in musical history it's the Atari ST Whoever's idea it was to build MIDI sockets into a computer (the most popular theory is that it was Jack Tramiel's son)

undoubtedly helped the ST become the musician's favourite computer

The ST wasn't the first computer to support MIDI of course - the Commodore 64, the Apple II and even the Atari 130XE all had musto software - but it was the first affordable machine and that encouraged music software developers to write for it

## When the ST were a lad

When the ST was first launched over ton years ago, MIDI was in its infancy There were only a handful of instruments with MIDI sockets (remember Sequential's Prophet 600 and Roland's Jupiter 62) and programmers were just starting to explore the potential of controlling MIDI through software

The term "sequencer" was already well-established and referred to analogue devices that could play a short sequence of pre-programmed notes - a la Tangerine Dream Although the modern sequencer is more of a music

One of the earliest sequencers was Steinberg's Twenty Four which cost

Who said the Atari processor or recorder, the name stuck market is dead -Sweet 16 rolled into play just a year or so sup! £165 (a lorra lorra money ten years



Ian Waugh looks back over ten years of sequencing history on the Atari.



ago!) and it was, at the time, the biz, It later became Pro 24 and can still be found in some music bundles today Other sequencers on offer then included Miditrack by Hybrid Arts and MIDI Recorder by Dutch Company, Mopro.

### Designer tracks

One of the major issues which concerned early music software developers was how to design the program and user interface so musicians could understand it and use it. Up until that point, the vast majority of musicians - and ordinary people too' - had had very little experience of computers so most programmers designed the sequencing concept around existing music technology the multi-track tape recorder

Steinberg's Pro 24 is a classic example It imitated a 24-track recorder. something few musicians could ever hope to own It featured not only realtime input but step-time input too (an impossibility in the world of multi-track recording), quantisation (a totally new

concept). MIDI delays (another new idea) and many more facilities which could only be accomplished via MIDI

State-of-the-art though it was then, the user interface now appears very clumsy in comparison to modern programs It was, however, a very influential design and had a profound effect on development for several years

### Take control

Most sequencers stayed with the multitrack concent offering 8, 16, 32, 64 and even an unlimited number of tracks. This was power most musicians previously only dreamed of although very few actually used more than 16 tracks, a fact that remains true today

Control over the music was via tape recorder style transport controls (this hasn't changed either) and there were punch in and out facilities which are really unnecessary in a MIDI sequencer

The potential of MIDI was just being discovered. If you made a mistake during recording you no longer had to

re-record the part. You could dive into the music data, find the offending notes and change their

At first this was done through an event editor that listed every MIDI event in a track. Some early editors showed data in a raw numeric format but now they show information in a more friendly way Pro 24 is still one of the most popular sequencer editors and ideal for fine tuning and editing data but for real ease of use something a bit more friendly is required

Along came the plane roll or grid editor, based on the old mechanical player piano rolls. Notes were shown as oblong bars on a grid with a plane keyboard running down the side of the screen It made it much easier to see notes in context and you could usually edit them you the mouse

Other editors including a song editor which showed music in one-bar toorements (still used in Passport programs although the company has withdrawn from the Atari market), graning editors for handling controller data, drum editors to help create drum tracks and source editors

The latter was very difficult to implement successfully C-Lab added scoring facilities to the company's Creator sequencer turping it into Notator - one of the best sequencer/ scorewriter programs on any computer

### Pattern maker

As sequencers developed, many new and exciting possibilities came to light. Many musicians felt comfortable with the multi-track linear-based system because it was familiar but MIDI data does not have to be stored in the same order in which it is recorded

This lead to the development of pattern-based sequencing in which musical phrases could be created in any order and moved arbitrarily around an Arrange page to create a song. It is now regarded as being the most powerful

and flexible way of greating music Steinberg's Cubase is generally acknowledged as being the first sequencer to use this system and the vast majority of other sequencers soon followed suit

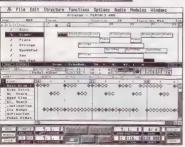
With the realisation that MIDI data can easily be manipulated by a computer, programmers began to include sophisticated processing functions which many musicians now consider part of the music creation process Groove quantisation, harmonic transposition, velocity and dynamics admetment, arouggistion, MIDI maxing, and scaled controller data processing are there to help your creative process

### Here and now

Sequencer development during those early years was fast and furious and at

> The grand-daddy of them all, Steinburg's Pro 24 adopted a "24-track convencer on a computer" approach and established the ST as the music compute a martie that it still holds. It's successor. Cubase (below). He more flexible and feature-packed, and offers a superb scoring









one time there were over 30 sequencer packages available for the ST Some were entry level programs costing from £50-200 but many were vying for the pro end of the market. Programs such as Hybrid Arts SMPTETrack Digital Muse's Virtuoso, Passport's MasterTrapks Pro. Dr. T's KCS and Hollis Research's Trackman came in d tring the '80s - and many went during the early '90s

Partly through having good products and partly through marketing clout, two companies have dominated the sequencer market since the late '80s -Steinberg and C-Lab (which later became EMagic)

The current programs produced by these two companies - Cubase and Logic - bear little resemblance to those early sequencers. The arranging incilities and data processing functions would have been mind-blowing to the musician of ten years ago. In fact, a common criticism of these high-end programs is that they have too many features and are too complex

That's as may be, but you don't have to use all the advanced features at once. You can grow into them as your experience and needs increase

Over the next few months we'll be exploring some of the more interesting and even areane aspects of sequencing For beginners, we'll look at sequencing basies and bring you a collection of hints and tips you will be able to try with most sequencers

Music and history - is still being made with the ST

Two more for the history books MIDIStudio Junior (top) was yet another sequences that appeared on the cause of an ST man CST Hear In this case) while Rave, from the author of Virtuoso, naver quite delivered its

natential

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# **GEMBench**

4.02



Goodman International • £1.95 • ST/STe/Falcon

akMBench 4 02 is the latest version of the industry-standard benchmarking program, programmed by our technical editor Offer Gall. With it, you can test the speed of your computer and compare it to those of other Atari based systems. There are benchmarks for every aspect of your computer you can name. from VDI text and graphics and GEM dialogue boxes to the optional floating point maths co-processor, floppy and hard disk access and more

With GEMBench you are not tied down to comparing your computer with preset configurations in the program You can create "user sets" which other users can compare their systems against, and this version comes with a selection of user sets created on accelerated STs. Falcons. TTs, Medusas, and even under MagiCMac! So if you want to know how much faster your system will go with a particular accelerator in it GEMBench will probably be able to tell you

This version of GEMBench has an improved user interface and now comes with an on-line help system in ST-Guide format It's well worth the registration fee



# **BOBtracker**



You want muste while you work? With BOBtracker , you got it



Goodman International • £1.95 • Falcon only BC Burreker is in advanced module

(MOD) player that runs either as a stand-alone program or in accessory is a.so makes full use of the Falcon's DSP chip to produce quality playback without burdening the main

processor Most MOD players can handle 4 tracks of sequenced sound samples but BOBtracker supports up to 8 tracks with real bass and treble control boosting

When you run BOBtracker as an accessory (or an application under MultiTOS) samples can be played in the background while you get on with something else. All the primary functions are available from the main window which calls other windows as required. The video style buttons control playback as you'd expect and the eject button calls the file selector ready to load another MOD file

A few non-essential features are reserved for registered users but at only \$6 it's money well spent

# Duet 1.00



### Goodman International . £1.95 ST/STe/Falcon

Duet is a cheap, no hassles, networking program for TOS-based computers You can connect your Ataris via the MIDI ports, serial norts and

even the LAN ports (on the Falcon and TT) and even let both computers share the same printer The program and documentation is in German but it is still very easy to set up. Duet comes with a set of drivers and all you need to do is choose the appropriate one for your

setup. Then there is the configuration file and a program to read it. The confiduration file specifies which drive icons on one machine relate to which physical drives on the other and what speed the network runs at. All three files so in the AUTO folder

With this program, you pan, for example, create a file on one computer and copy it to the other and vice versa. It is

even possible to unpack a file across the network without any problems If vou've got two Ataris, and don't mind spending a few quid on cables, this is onyou've get to try



fast file transfers.

Gat many Atreda

together mun!







Floppyshop • £2,00 • ST/STe/Falcon With the increasing

ht

Information Superhighway and the growth of on-line services like Compuserve, many modem users are feeling the need for speed While modems are undoubtedly getting faster, the STs serial port is falling behind

In fact, the ST can't make full use of the fastest modems without various fixes. One of them is HS-Modem, which not only fixes a serial port bug, but actually increases the speed with which data transfer occurs at the serial port. The increase in transmission speed is most prominent on the Paloon and TT, and not so much on the ST, which needs a hardware modification to the serial port

HS-Modern is a modular system, where you only use the necessary bits. This version also comes with an easier way of configuring the program for your system although it's still nowhere near being perfect Important bits in the documentation have also been translated into English If you're sick of paying a large slice of your Income to BT or Mercury. HS-Modern might just put a pound or two back in your pocket



Floopyshop . £2.00 ST/STe/Falcon

Optical Character Recognition is no longer an obsoure application for technes. Hand scanner prices are as low as they'll ever be so if you want to get text into your computer, you've got a good chance with OCR. What's

more it's freeware and doesn't cost you a penny OCR can be run on 0 5Mb machines, but I would recon mend more memory, as scanned images tend to be large. The program comes with a couple of example images, which it whizzed through in no time when I tested the program and left me with some remarkably error-free ASCII files I could notually edit and save



OCS File Total Option

ieses Programm ist FREEWARE. Es darf werden. Eine Verbreitung über Mailboxe erlaubt. Eine Verbreitung auf CD-ROMs Zeitschriften ist MHD mit mainer schri ter Das Programm

Programms und

con unit of un tomplett weitergegeben werden. Das Verändern der

Sean taxt in and turn tt Into ASCII with OCR 1.3

Yep - you can

even train the

next time...

Like its commercial counterparts on the Atari (notably Migraph OCR) and other platforms, OCR can be trained for any particular font. Training OCR makes it more accurate Each time it comes across a character it can't recognise, you just type in what it is, and OCR remembers it for the next

Insert in detabase

identifu es

The latest version is now in English, and it comes with online help in ST Guide format. If you need to scan and interpret text or you just want to see what the technology can do, have a look at this.

program to recognischaracters for the 36666666

# ST-Guide Creator 4

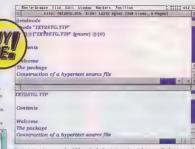


International • £1.95 • ST/STe/Falcon

Many PD and shareware programs now come with on-line help in ST-Guide hypertext format Many reference texts and classic books are also being converted to this format too and ST-Guide is rapidly becoming the Atari

standard, much as Hypercard was on the original Apple Macs. Why has it been so successful? Probably because it is so flexible and so easy to use Indeed ST-Guide is something we





In ST-Guide.

should have had a long time ago - It lets you display text and

images on screen with point and olick links to other pages If you want to create these ST-Gulde hypertext files for yourself, you can create them manually, by placing all the control codes in the correct places, in a text file, using a simple text editor. But this is tedious in the extreme.

ST-Guide Creator makes the process a doddle. Take a text file, import it into the ST-Guide Creator program, wast a few seconds, take the resulting file to the bundled Hypertext compiler, and sit back and admire the view

A Hypertext compile Is bundled into the package.

Manage Vour GDDS

fonts more easily.

Fast screen burnking

for your Faccon with

TurboBlanker



# Speedo Font Utilities



Goodman International . £1.95 . ST/STe/Falcon

This is a disk that will certainly so down well with SpeedoGDOS and NVDI 3 users

It contains three separate programs, and a couple of rather good quality Speedo format fonts too. The first program General GDOS, lets you view and print installed fonts, printe

control codes, and general information about your system. Next there is the GEM-Font viewer, which shows you the full character set of a particular CDOS foot

The third program, SPD List, creates text flies

containing the actual names of the font, alongside the filename. This is very useful for looking for a particular font from the desktop, as Speedo fonts have pretty cryptic names. Not all of us can remember that the font file BX000648 SPD is in reality Bitstream Charter, for example! If you've a big collection of Speedo format fonts and want to back them up or create folders for particular types, this utility will be invaluable

# TurboBlanker 1.23e



Goodman International . £1.95 . Falcon only

Some Atari screen savers just blank the screen: others have plenty of colourful

graphics but require a lot of memory and processing power New screensavers always arouse interest especially if they're easy to set up and use little or no memory

TurboBlanker is a Falcon-specific screen saver It differs from many others in that system performance is accelerated when the screen is inactive. It also makes use of the energy saving mode in many modern SVGA and multisyne monitors and works with screen enhancement utilities like ScreenBlaster and BlowUp "Hot zones" provide precise control over what you want TurboBlanker to do. You can activate the screen sever immediately by moving the mouse pointer to the lower left hand corner of the screen, and it can monitor

input sources such as the mouse, keyboard and modem

One possible problem 1 tried TurboBlanker on two monitors - and it only worked on one of them

# Mega Games Bundle!



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· Marie Carlos





At one obtained to the original of the origina





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# **PacShell**



Floppyshop

• £2.00 •

ST/STe/Falcon

Many archive formats like

LZH, ARC, ARI and ZOO have horribly convoluted command line interfaces that can be very confusing for first time users. Happily a number of shell programs have appeared to cushion beginners from the dreaded command line with comfortable, pour and clush (front and).

Archive shells are typically styled as twin file selectors like STZIP and Two-In-One but PaoShell breaks with tradition and uses an alternative desktop complete with drive icons, treahpen and directory windows.

After initial configuration, archives can be extracted or created by dragging files between directory windows. Progress can be monitored using the console window which can be

scrolled back should something unexpected happen. Archives can be dragged and dropped onto optional tool loons that can be installed directly onto the desktop. Common tools offer automatic virus checking and undecoding and encoding.

PacShell offers hypertext on-line help in ST-Guide format which can also be used to view

readme files in archives by double clicking on the desired file Registered users receive a personal key to unlook a few nonessential features that are disabled in the shareware version

PacShell provides drag and drop archive bandling via its own desktop



# 0000000000

# Kaleido



Goodman International •
£1.95 • Falcon only
Colour icon editors are still a rare breed

so any new offering is bound to attract

attention Kaleido runs in 256 colours in either 320x200 or 320x240 resolution which seems a bit strange as only 16



designed to edit
the DESAICON RSC file,
the default TOS
ison resource
file, and though
other RSC formust files can be
tonded they will

good range of tools including useful polygon and line tools and this, combined with the ability to import graphics in IFF and Windows BMP file formats, makes it easy to create stunning icons for your favourite programs.

Pressing the FI or Hel buttons activates the useful on-line help mode In this mode the cursor changes into a question mark and oan he used to point and cilck around the icons displaying brief help messages in the edit window Kaleido san't a had effort but it certainly needs more flexibility

# **PGPShell**



Floppyshop • £2.00 •

ST/STe/Falcon

PGP, short for Pretty Good Privacy, is a

neltu. ses energyton pacage, leagard to send acoure message and data files. CP has been truplemunted across several platforms which, I suppose, nakes it the de facts standed Tbe Atari nonemation is a TP application that needs to be fed a series of command line parameters. Happily PGPS-bit makes the whole procedure easter, expectally for on-line users, although it's also suitable for people who want to send dikte by root.

Bach PGP user needs two keys, one public and one secret which vary in size depending on the selected security level ranging from "Casual" to "Military"

To send a secure message you encrypt the file using the recipient's public key and optionally "sigh" it using your own secret key. The recipient decrypts your message using his secret key, followed by your public key, if you signed your message. On top of this, your secret key is password protected which prevents anyone

PGPShell offers "Pretty Good Privacy" for everyone.

Edit a kaleidoscope

atealing and using your key.
Cardused Poort worry,
th's all fairly pamiess – but
miles you're a paranoid
scientist it's hard to see
why the average Atari
World reader would use it.

# Ruftrade



ST/STe/Fatcon

Ruftrade is a no frills German to English translator with one important advantage over its peers - it generates readable English

Ruftrade evolved from the earlier E-Diot which asked the user to select the desired word from several alternatives. This resulted in larger, less efficient dictionaries and extremely slo-o-o-o-w translations

The secret of Ruftrade's success lies in its highly speunlised Atari oriented lexicon which only contains a single translation for each German word. The most likely word in the Atari context has been determined by building the lexicon almost entirely from German Atari software documentation

At only a fiver it's well worth getting hold of the registered version which includes an ever expanding dictionary with more 'group repagements'. These take common wrongly translated phrases and replace them with meaningful

English cau valents which considerably Improves the legibility of a Ruftrade transla-

My only grine with Ruftrade is the interface which simply doesn't do the program justice



# Voyager



Floppyshop • £2,00 ST/STe/Falcon

If you're into astronomy you'll love Vovager' I was soon totally engrossed in



exploring this fascinating package and marvelled at the sheer scope of the features on offer Everything is accessed via the alternative deakton interface which features drop down

menus, toons, function keys and (by holding the right mouse button down) a pop-up menu which duplicates all the options in the drop down menus

It's a great shame that the shareware version is so crippled that it is little use at all this sind of approach to shareware often alienntes more users than it attracts but since the potential audience is probably fairly small the author deserves a registration fee from each and every user

The non-standard interface combined with the saudy colours and lack of customisation are my only reservations about this otherwise excellent application.



is pretty basic. but It does its job effectively enough

Vovager runs rings

Suffrada's interface

round Saturn's

# Profile

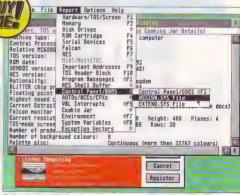


9 £2.00 ( ST/STe/Falcon Profile is one of

those utilities that looks set to become a standard Atari diagnostic tool It performs a complete analysis of your system which can be saved to disk or printed out as desired The information is divided into bite sized chunks and displayed a page at a time in the main window The general pages offer a safe environment for nosing around your system and browsing through configuration files, auto folder programs, accessories, control panel extensions and so on

With four different machines each sporting different hardware components and TOS versions and possibly running one of several multitasking operating systems, you're bound to run into the odd rogue program now and again and Profile is designed to belp developers figure out what's going on I'm sure most developers would prefer to get a complete Profile report from a machine that refused to run their program instead of ten minutes of telephone

Armed with nothing more than a copy of Profile you can turn yourself into a software developer's nightmare now I'm off to tinker with my BCONMAP



\*\*\*

If you're curious about your Atari. why not let Profile take a look ander the hand

# Hoog

HARI WOTU

Hoog sets new standards in terms of shareware piatformers - take a gawp et those graphics!

Showers of store

are erattered as

each piece of fruit

Goodman International • £1.95 • ST/STe/Falcon (with Backward)

Super Numendo and

Megadrive owe their success to maniacally addictive, cuteay games and Hoog provides a taste of the genre's appeal on the ST Put simply, this is one of the best shareware games ever.

The star of the show is Hoog, a dumb-looking animal with a major mission on his bands. [7] spare you the gory details, but essentially you have to dash around a large, colourful Completing a level is a two-stage process release the children and then grab a balloon to send them flying to safety Smart bombs can be used to dispose of any minja-mais that get in the way and a good harvest of fruit will bely out in the soore department it's a near-perfect game there are bad-

dies to blow up, goodies to collect and an overal, mission to seep you ploughing through the levels. The

mansan to neep you purpose any arriving to servers in the testion to detail as quite super bot (long can only survive underwater for a lunted time and showers of sters are produced when frust is consisted been more amazing is the fullservere, parallist serveling. Nes, To say it eights two sevols of full-servers sorolling on a standard STI Look carefully on you'll notice that the movement into quite as smooth as it out to be not seen to so more than and the stratibles are blassoutly but the sacet in no morbion and the stratibles are blass-

fully colourful. Only the music lowers the overall tone with a bouncy melody that enters your subconscious and simply refuses to leave. "Flair ire three sample levels in the

shareware version of Hoog and the full come includes fiftion. These are

different islands, each with individual graphics and unique challenges. Houg is

worth its fiver registration fee several times over, even if the musso does drive von insane Judging by the sample levels, it won't take too long to complete, but I guarantee that you will have a bundle of fun along the way. A classic

Our man Hoog can stay under water but be

sure to give him a breather every now and

anain.

00000000000



# Gnu Chess 3.5

Below: A mouse driven interface fronts up the all-new Gnu Chess - how about a 3D board guys? Right: Hints and cheats are only a mouse click away, but you wouldn't use

them, would you?

Floppyshop • £2.00 • ST/STe/Falcon

nere is something strangely addictive about computer chess games. No matter how hard you try, it's impossible to resist a quick game and Gnu Chese is likely to best you nollow (spearing from experience)

It's not surprising really, as the rather lacklustre display disguises a pretty mean chess-playing machine. A huge library of opening moves lies at the machine's disposal, and the documentation is

The second of th

proud to point out that the game has an ELO rating of 1500 There are no play levels as such, but you can specify the computer's thinking time and quick hints are available if you get stuck. Version 3.5 offers a much better interface than its predecessors, although you might



experience menu problems on anything but a 'clean' machine.

GNU Chees has everything you could expect from a qua.itchess game. It's fast enough to be enjoyable and should provide enough of a challenge for most players. The monto-only
graphics could be a bit more exciting, but you can always
redessin the neces

# Bouncer

Goodman International . £1.95 . ST/STe

t's Monday morning, it's PD Arena time, and bouncing over the horizon comes yet another Breakout clone - let

all, we abound? But reduce you turn the page in dispast. Bouncer is a little but different because the but has been replaced with a see-saw and two acrobats. The more successive bounces you can manage, the higher is a gays will jump and, the more blocks will disappear. Smart bombs make it a little seaser to clear ovoided areas, but It's tricky to use them while maintaining control of the elastform.

As you can see from the screen-shots, Bouncer is no horshot in the graphites department – the blocks do have a rather appealing 3D quality but the acrobats thermselves not like relies from the Spectrum and dould really do with some more character Favourable impressions created by the title music



tired theme, but there is just enough originality in there to

night after signs of frustration?



Above: It's suraris-

# **Crazy Letters**

Floppyshop • £3.00 • ST/STe

greey Letters as a landmark game, being the very last Dunce's Cap production for the ST It follows on from a whote line of semi-educational titles and is to find a word hand beneath a grid of score tiles, whilst keeping in credit points-wise You can guess

the remainder of the word at any time and a certain amount of strategy is involved – quitting a round while you are ahead for example. The second stage, entitled 'Vowel Play' is the



opportunity to gamble your score for an extra life. Bonuses brighten things up moderately, but it's not really 'edge of your seat' materia.

Crazy Letters is a typically DCS affair – It's lavishly decked out with sampled sounds and swish graphics, but you can't holp feeling that the gameplay takes accound place

Nevertheless, if you have enjoyed Dave's work in the past, this one Finish the words and win the points - it's as simple (and engrossing) as that.

will not disappoint

# standard issue pot-luck round and is followed by an Little memory and one cilck is all finit's needed to direh it as

# Yukon

Floppyshop . £2.50 . Falcon

and the second of the playing patience wasn't exactly what I had a mind when I bought a Figure but it is surprising upst how addictive the game can be, even when it's running on a machine capable of so much more. Yukon is a standard GSBd and game, complete with window-based playing table, and a simple mouse-controlled interface. The game itself and the documentation are both in Gorman, but it's no problem, as long as you are familiar with Pattenet can't hill-decent book of eard games will help you out with the rules). If the rather dull card-backs are a but too much to stomosh, you can share the same will be play to the supplied utility, once again in German. Although the game is shaped on a high can't disk, it does seen to run on the Fill's high resolutions.

Yukon is an ideal game to relieve the stresses of work. It will run kappily in a multi-tasking environment, takes very Little memory and one elick is all that's needed to ditch it as the bass becens into view lasually seconds before a record high-score is achieved. A little more effort on the graphics side and we coald have been looking at a classic



Coloured cards, stick interface, GEM compatibility – yep, Yukon is a pretty good game by anybody's standards

# Back Issues...

... for your collection



Prior to Atari World, there were two other great Atari magazines, now sally lost from the shelves. The much loved ST World sally disappeared may years ago and is still sorely missed by many diehard Atari owners. The other, Atari ST Review, has now disappeared from the news stands in its woolmal formut.

Atari World has been fortunate enough to secure stocks of a limited number of back issues of ST Review and we are pleased to make them available to our readers. If year collection is incomplete, then why not order a copy from us?





# Just for you - a cover disk rundown

- Issue 12 Video Titler, Kid Keng and Russ HK.
- Issue 16 Concerto and Kaboom!
- Issue 17 Prospero C
- Issue 25 Equinox Organiser
- Issue 26 GEMView 3
- Issue 27 MasterCAD, and Kobold demo
   Ishar 3 demo, Eclipse, Spectre 40
- Imagecopy demo (two disks).

  Zero-5 demo and Vidae Supremo
  (two disks)

Most cover disks also include various utilities.

Switch Issue No.1



Credit card order hotline:





# What a bind!

We have even secured stocks of the ST Review binders. Extra special quality and a snip at just £5.95. Get yours to round off your collection in style.

# Never mind the language





Jon Ellis offers some advice and thoughts on computer programming – no matter what language you use. o you're it programmer? Or maybe you dike to be a programmer? The chances are that you will identify yourself with a particular programming language such as C. BASIC or possibly assembler in a way this is odd the choice of language is only one aspect of the process of programming and not an overwhelmingly innovance ne as that

Lot's take a step back from the issue of langang, and focus on the ideas and Jesign processes involved in programming. These can be separated into two broad areas the creative, innovative process that generates the idea for a program or the look of a slot user interface, and the problem-solving that goes into implementing the concept.

The mise thing about computer programming is that the problem-solving part of the process is done within a defined, logical world Programs don't will for "no reason"—the cause may be obscure and difficult to pun fown but there is always an expansation. By adopting an ordered and structured approach to programming you can produce nest, efficient and reisable code

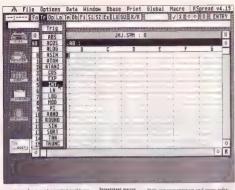
So much for the hand-waving – how can these ideas be applied to the practicultures of programming Let's start by looking at the resources and backup needed for successful development

# Knowledge is the key

The key to programming a computer, whether it is your cold Sinchet 2000 or the university supercomputer, is known edge. Without a good, which beautiful and as 4 of ground rules, you are binned and as 4 of ground rules, you are binned fairing around in the dark. At the worst, programs will full simply because they to not interact with the system in the correct way. At best, you waste time by entire the correct way. At best, you waste time by verification of the correct way. At the sty you waste time by view and the correct way. At the sty you waste time by view and the correct way. At the sty you waste time by view and the correct way and the correct way. At the sty you waste time by view and the provides when the system already provides.

Decent Information about the ST is possible to find. The Atart Compendum (HiSoft) and Atart's own DoeSupport minimals provide comprehensive reference sources Documentation supplied with compilers and language systems a aiso useful, thoopil it tends to be restricted to the bare bones of the operating system services and often omits important details about the way the manching works.

You can also flud justy subpets of the Usenet newsgroups on the Inferret such as corup see across the land the newly-formed comp see across actors programmer are a good source of information. There is a loc of traffic with an informative message base and there are refreshingly few "my Atars is better than your Amilga" "my Atars is better than your Amilga".



questions about programming problems. as are the various atarist conferences on CIX.

nea fine for simple arithmetic programs little experimentation and gross-raferencing, you can usually arrive at the tentls

It is always worth taking a lateral look at some of the problems you are trying

to solve using your programming ability

For example, if a task is heavily number

based, would it be quicker to write some macros for a spreadsheet like K-

Spread 4, rather than programming a

Similarly, many tasks requiring manipulation of text can be performed

easily using tools like awk or perl. Their

programming singuisties are pitched at a rather more abstract level than C or

BASIC, allowing complex operations to

To avoid stagnstion and a blinkered

he coded in a few lines of script

approach to programming problems

take a pritical look at other people-

software. One method that many will

find useful is to examine a program and

to ask yourself what it is that makes it particularly good or bad. You can then

us, your appraisal to aude your own program design in future

Saving some effort

stand-alone application?

Last, but not least, reading source code for public domain programs can also be extremely useful. Why waste time banging your head against a problen that someone else has already enland?

It is important to read such material orthoally of course. Just because something is in print, it is not automatically right. There are plenty of errors and omissions in each of the individual sources described above, but with a



Left: How did they



21999M brundels on one ofswense gargelfy

house sum.atari.st\_tech,comp.sys.atari st

The certridge part is mapped into memory at addresses SFFFRESSE-FFFRE and the ST, and perhaps also (i.e. I can't remember the ST. and perhaps also (i.e. I can't remember the ST. and perhaps also (i.e. I can't remember the ST.

at Staffscoox/SOBFBoxex on the TT and Falcon which really do use all 32 oddress became

Below: There's .ots of treatmy into out

# so that trick with

red fidenet.ares, Rich Tietjenebf6265.niB6 zl.f.d

### Utility room

Over the years, many utilities have been written to make the task of software development easier. These range from large packages that automate many parts of program development, such as resource editors, down to simple utilities that oriest information about the structure of a file, or ist the debugging information beld in a program. Having a good suite of utilities close at hand can streamline the programming process, so that more time is spent creating new software and less on house-keeping tasks.

Hany of the most powerful utilities originated in the world of my Newser compating where graphics interfaces similar to GEH are only beginning to take hold. This means they tend to rely on a command line interface rather than the point and citch we're used to on the Atan, Although this may seem daunting at first, it is well worth persevering, because once you've learned them, command lines are quick and easy to use.



Resource editors can be used to find out how GEM tricks work



Disassembling utility programs can also be useful for learning about the system



and every programmer needs a toolkit of utilities!

Such an approach is particularly applicable to program interfaces. The quality of the user interface can dramatscally influence the overall axefulness of a package For example, Papyrus doesn't offer a huge increase in functionality over Calligrapher but it has a stunning and extremely powerful interface that

Having spotted a neat interface trick, a quick rummage through the program's RSC file with a resource editor can provide useful hints and inspiration for

has won it a lot of praise

implementing something similar in your

Finally, despite all of the suggestions above, there is no real substitute for experience. Over time, as you write more software for a system, you get a feel for the way the computer works, for the symptoms of common bugs and for the right way to approach a problem

Next month, we'll have more practical advice for better programming and focus on the coding process itself

treate a R/ H port by toggling modes

stoff delated.

## We're All Ears...

Launching a new monthly Atari magazine has taken some doing. Before we started this project, we canvassed for opinions – and this is what a number of real Atari owners like you told us...



"I regularly read ST Format from Issue one onwards, and indeed before that in 18 gues of ST/Amigo Format... If you wish to see what an Atan magazine should not be you need look no further than the lost issue. I certainly and not buy a copy and I do not intend buying in future if these pothetic "standards" are maintained,

I also read, enjoyed and benefited from every issue of ST Review. I am sure my news are shored by all his IVic Lennard's I former readers."

RD. Harrow, Middlesex

"SF Review was an excellent magazine, it is a great shame that when it was bought out by Future Publishing they didn't rename it SF Format and drop the old rag instead."

AD, Crawley, West Sussex

"I only discovered the magazine IST Reveney Isone six months opp and immediately took out an infilitie subscription. I now have to rely on the ST Format count book to keep me informed on Atard specific news and on Atard specific news and evenlopments. I said as much in a settler to ST Format and got the special construction only being sheep in Mid-Wouss anyway."

CEBP, Powys, Mid Wales

"It sounds a nice idea [Atari World], as I am already missing ST Review. Thankfully my transferred sub to ST Format has now finished. I can't take any more of that cr'p that purports to be a serious magazine!"

MK, Handsworth, Sheffield

"I do hope Wr. Lennard
can be personated to start
a met inagarine to ST
a met inagarine to 9 poor
format, which is a poor
suggerne in companion to
ST Review. I will support
Such a venture for sure."
C.M. Beshill on Sea.
East Sussex.

22223

"It is a magazine like ST Review that keeps punters like me interested. We need the odvertisements of companies like Compo, HISOft and System Solutions to whet our appetite for new products."

DGG, Enfield, Middlesex

"If Vic Lennard con emulate the phoemix I shall certainly buy his magazine. The closure of ST Review was a disaster."

DGP, Stockport, Cheshire

"I would welcome its [ST Review] return with open arms."

NWS, Altrincham, Cheshire

The section of the contract to the contract of the contract of

All the opinions expressed on this page are direct quotes from Atari magazine readers taken from letters they have sent us.

The views and opinions do not necessarily represent the views of Atari World or Specialist Magazines Ltd.



# Caught in the Web

Alexa Robinson explains why, in her house, the TV stays off and the computer stays on... hout a year ago, my husband presented me with an ultimatum -either I stopped telephoning the form shak homes at real. NSN or I more done their them with them Ile didn't saw which he would have, preferred har I get the message Bonng am American I still can't get used to the different 'phone rates! Having been an enthussatio Akari user anno 1983. I had one reading all the Akari magazimas. Two topics kept coop-

ping up again and again - commiss and interpret Email to the world, they said, so I figured I'd have a go. It had to cost less than the \$400 a quarter I was spending on 'phoning home'

i joined CIX and found lots of fan conferences. But everybody was talking about the World Wide Web. I just had to find out what it was. After a while, I realised that I could access it through my CIX account even thought I couldn't see it in all its slory as the browser softwere on the PC and Mac can.

At the time I was connecting with my old favourite, a portable Stacy Not in any way what you would think of as a powerful system But it worked - even with my 2400 baud Zoom modem! I just needed the right software for ANSI emulation so Lohose Compo's Stalker With that, I was ready for the plunte

#### Hitting the g spot...

At first, I couldn't believe how easy it was' All I had to do was type GO

#### Alexa's Little Red Book

GHH Whote Internet Catalog

If userro posline try a few of these to start with. Tune in addresses exactly as they appear. YAHOO http: akebone stanford.ed./yahoo, WWW Virtual Library http://www.w3.erg/hypertext/WWW/Provider/Overnew.htm. ElMet Galaxy http://www.einet.net/ Yoraff's Connections http://www.wm.edu/Hirror/Inet.services.html Planet Earth http://teal.mosc.mil/infq.html

httm://www.een.com/wie/ Sometimes these URLs simply refuse to work. Bon't immediately famp to the conclusion that you have done something wrong if you get un arror message, Remember, this is like garly days of television, except they don't have the nifty screens that say "We are experiencing

First name of our service section (describes the different aspects and exements of WWW design.



Becow right: Table of Contents from the ARC site

Selow: First page of Latters from based, interacti



INTERNET at the main prompt followed by WWW at the IP prompt that had appeared and the software did the rest I was there

But where exactly was 19 And where were all those great things people had been talking about? It took me ages to discover that a URL (Uniform Resource Lopator) is must like an address or a phone number And it was a bit longer before I discovered that I could hit the a key at any time and type in a new address to visit - without ploughing back through everything I had read already

The question of where to go is going to be a lot easier for you than it was for me a year or so ago. For me it was autit, hunt hunt Today there are man ames and books colore with detailed lists of addresses showing you how to visit all kinds of weird and wonderful places

Since those early days, I now connect to the Web with my new Falcon 1 still use Stelker but with a 14 400 modem It's a lot more fun at the higher paud rate - I can visit a lot more places in a shorter period of time!

I have even built my own Web site. ell with just 4 Mbs of RAM in my Falcon a 350 Mb hard disk and some great Atari software I have to rely on my Mac and PC friends to check the layout of my work - and sometimes I have to come racing home to correct the coding if it doesn't look the way I planned ir

I had quite on experience when one of my features was listed in Yahoo, a popular Wen directory, and I had well over a thousand visitors from all over the world browsing my pages on the first day So when you're out on the Web. don't forget Come up and see me

#### The way of the Web

Ataris have a problem Musti-tasking mask't been ground very long but it is vita, for World Wide Web access - you need a network program to handle commencations with the Internet service provider and another preferably practically based, program to sort out and display the

This ack of a real standard multi-tasking operating system has meant that no one has been writing an all in system of a Web browser with networking canabilities has been too hard a challenge for Atari programmers.

All is not lost though - ou to the severse in fact The advent of MiNT has lad to the renation of MSNT-Net (a networking layer), which is being ra-worked for the up-and-coming Martic operating system. As a result, there are at least 3 Web browsers on test at the moment.

The two that are available are Lynx a text based browser, and Chimera, a graphical port from UNIX. The bad news is that these two programs require the user to have a huge amount of technical knowledge. The latter even needs 8Mb of memary!

The best hope seems to be a collaborative effort from Annius Groeninx and Chris Ridd, This project - code-named Route 66 - is aimed at the non-techie. It will run on any Atam with 2 Mbs or more of memory, feature a standard GEN interface and use vector fonts for display.

The availability date is uncertain but when it happens we'l, have a browser to be proud of. In fact. Atarl World may have had a small part to play. According to Chris, the promise of a new Atari magazine has "culvanised me into action". Now don't say we don't do snything for you...



## Clubbin'

## With support on the Atari platform becoming harder to find, Harry Sideras looks at ways of providing your own...

omebody, somewhere, is sitting in a study or back bedroom right now poring over a
keyboard, illuminated by the
glow of a monitor screen file
with an image that doesn't make sens
the might be a text file that can't be
imported, an image that defise activit
or a calculation that instats on the
wrong result. Whatever it is, the solution defies their best efforts and there's
no-one to turn to for help. The original
supplier of the program might have
gone out of business or the publisher
turned toward other platforms.

This is the familiar and frustrating scenario that we've all each faced at one time or another and one which is likely to become more common in the Arari world as time soes by

Thousands of usors stay loyal to the Atart platform. It may be through economic necessity or a consolous preference to avoid the dublous attraction of expensive PCs and Macs, computers that domand enormous resources to persuade the processor to performing at anything kie, a reasonable such

So what oan Mart dieherds like you and I do? A few things spring to mind. We oan upgrade the software in search of added features or switch to more powerful package. We could also asek out separate, external utilities to do the job or even upgrade the hardware, if necessary

Alternatively, we can take advantage of our greatest resource of all – the wealth of experience contained in the userbase that has bought a million Atari computers in the ST's ten year lifetime'

#### Getting connected

OK, it sounds good on paper but the likelihood of making contact with the timest fraction of this userbase is pretty remote, isn't it? Maybe, maybe not

Fifteen years ago in the wilds of Norwich, Ken Ward faced this same dilemma and placed an advert seeking out others in the same position "Atari ST user seeks help. Please phone ..." it read From the reaction he got and the group he subsequently established it was clear that he wasn't the only one in the same boat

In time, his involvement and enthus assum brought him to the attention of Atari Itself, who Invited him to organize the User-Group section in the Atari Village stands at Olympis From there here at the Association of Atari User-Groups, compiling a directory encompassing the whole country, enabling people to make contact with those who and the raw get-sp-ind-gb to organise themselves into a group in their local area

#### What's on offer

Whother it's small and informal or large and organised, any user group will provide a range of interests and experience, from games players with 20% to cardous enthusiases with all manure of menthusiases with the proportionity to pick the brains of the techles and to pass on your own hard-earned tips plus the chance to see the latest organization in action and to

Compiling a club disk of demos and reviews can provide a theme for monthly meetings and encourage feedback.

Chashant Computer

Club is one of the

best supported in

show off your own expertise in your

User groups don't have to be local either Support can be found by contacted groups and the specialise in areas like MIDI, DTP or programming. Palcon and TT owners can get help and advice from a group dedicated to putting users in contact with each other and don't forget the Internet and the privately run BBSs with a west amount of knowdede and software no offer of knowdede and software no offer

All these areas will be covered in more detail in the coming months. The concept of User Groups comes into its own when other avenues of support decline. It's time we began to help oursolves.



Where to go

If you're looking for the nearest user group to you, a list can be obtained from

Mr Ken Ward

Association of Atari User Groups 45. Coleburn Road Norwich NRL 2NZ

Tel: (01603) 661149

If you ourrently run a group and haven't asked to be included in the directory, contact Ken with your details if you still find yourself without a user group in your area and you're interested in starting a group of your own, an information pack its available with advise from

Mr Terence John
British Association of Computer Clubs
148. Furzehill Road
Borchamwood

Hertfordshire WD6 2DX

In addition, BACC can provide a listing of all clubs in your area, irrespective of platform, some of which may be interested in an Atari section to add to their membership and share costs. Why not give them a try?

If you have any feedback, I'd be glad to hear it. You can contact me here at the magazine or via email to sideelery@cix.compul.nk.co.uk.



You send in the questions - Ofir Gal and his team of experts set about solving 'em...



I bought about 6 months ago. I am 63 years old, and this is the first time that I have even used o computer so I am very new to this technology.

When I bought the computer, it come with some games and a few utilities (as I recall the seller tellina me). These utilities included things such as word processors and other software that I find quite useful. It took me more than two months to try out all the software I got with the machine After this initial period, I decided to look for more

software, and thought that I would try some Public Domain bbranes. I scanned the Atan magazines for adverts and, on finding a bbrary that claimed to have the most files on a disk. I ordered some software.

I got this within a week but on trong to run the programs. I get sourcous characters on the screen, and some 'dinas' from the computer I was pleased with the aurck service, but am very annoyed at receiving software that does not work. What ran T do? Alan Ion.

Durham different packing tech-It seems to Packing me that the not only Packing Process compresses library you files, but ordered the disks tes a single file from has provided you out of the whole with "packed" files, You FRED ZIP Int for easter need to unpack them sterage. before you can use the programs.

Most Public Domain libraries pack or compress the software so that more can be put onto a disk. As an example, let's say

that a program comes with three files: FRED.TXT FRED.PRG and FRED.RSC. All together these might be, say 450Kb in size so using up more than half the capacity of a double-density disk. Packing these files with ST-Zip would compress these files and store the lot as one file, possibly called FRED.ZIP. The final packed file will, probably be as small as 200Kb in size - less than half the size of the original package.

> niques. and you have to use a certain unpacker depending on the thran-lat-

There are

tered file extension. The most common packed file extensions on the Atari platform are ARC.

Printer Trouble After many years of service, I decided my Citizen 1200 printer

needed to be rentaced, majoly because I couldn't print landscape pages from Timeworks 2. Now I have a new Hewlett Packard 520 DeskJet, which is quite excellent, but I want to print closer to the edge of the page. I can get the printer to print within 5mm or so of the right, top and bottom margins, but the left margin is some 3cm in landscape mode. I have set the printer DIP switches to accept A4 paper and altered the perforation skip top. I have set the printer offset values in the "set column guides" dialogue box: everything is printed in the right position but work to the left of the page is still cropped. Most of my word processing is done on the move with my Amstrod HC 200, which ports its files straight into Timeworks and prints great with the HP 520.

I also use an old database program called Trimbase but I am having trouble using printer codes in the installation program the decimal code that the HP520 needs is too long for the program's input parameters. Any ideas?

Finally, what is the difference between GDOS 1 1 and 1.8? Chris Miles

You have made a good choice of printer: the DeskJet series of machines are solidly made, and should give you years of service. Unlike some dot matrix printers, the DeskJet is incapable of printing on every part of a page. On portrait oriented-A4 paper, there is an unprintable zone of about 6mm on the left and right margins, and about 12mm at the bottom of each page. This 12mm wide strip corresponds to an irreducible left margin for landscape prints.

MP DESKJET	500
Print Quality:	Final
Page Size:	R4
Colours:	B/H
Port:	Printer
Tray:	Tray 1
Horizontal DPI Size	380
Vertical DPI Size:	388
Print Area Offsets	On Off
OK [	Cancel

The Printer Drivers desk accessory with SpeedoGDOS

A 3 cm left margin for landscape prints does seem excessive. With the printer turned off, set the DIP switches for A4 paper and disable perforation skip. Turn on, and try to print a landscape page with zero left margin. If the output is clipped to a 12 mm margin, the limit of the printer has been reached. If the margin is larger, the software is not configured

properly. In addition to checking the settings within Timeworks 2, you may be able to alter the printer driver itself. Under SpeedoGDOS, the DeskJet 500 driver can be configured to automatically take account of the unprintable zones. This feature can be disabled using the Printer Drivers accessory that comes with SpeedoGDOS.

ZOO, LZH and ZIP,

The printer set-up routines in many older application programs, like Trimbase. were designed with the Epson-type printer control codes in mind. As a result they often cannot cope with the DeskJet's PCL (Printer Command Language) codes. As far as I am aware. Trimbase is no longer being developed, so a more DeskJet-friendly package is unlikely to emerge. One strategy that is sometimes useful in these cases is to write a small program to send the desired control codes to the printer. This can then be used to set the printer up correctly, before the application is run,

With regard to GDOS, this has been through a number of versions over the years, and many have been rather unreliable. The oldest stable version in general circulation announces itself as "Release 1.1" (not to be confused with "Version 1.1", which preceded it). "Version 1.8" also predates Release 1.1 and is not as stable. You might want to consider getting hold of NVDI - not only is it a faster and much more reliable replacement for GDOS, it also speeds up screen updates enormously. You will be surprised at the difference it makes to the feel of your machine! Jon Ellis



Two-in-One makes life much easter when unpacking files. Why use complex commands when you can just point and click?

For ARC you need a program called, not surprisingly, Arc while Z00 extensions require the Zoo archiving program. LZH files need LHARC to be Roger White, Worcs unnacked, and to unpack files with ZIP as the extension, you

will need to use STZIP. These programs are available from PD libraries - and you can get them in unpacked form!

LHARC and STZip come with their own easy-to-use interfaces. Arc and Zoo use archaic commands to unpack software, and are certainly awkward to use. For this reason, I suggest that you use Two-in-One. This program provides an easy-to-use interface for Arc and Zoo, and also supports LHARC, and STZip. Two-in-One is a shareware program (also known as "try before you buy"), and is supported in the UK by our very own Joe Connor. The latest version is 1.22. Denesh Bhabuta

Word Processing Dilemma For the past few

I've been using Word Plus to write reports for my business and personal letters. It's a small business, just myself and my wife, but although we find our Atari superbly suited to our needs we are becoming tess satisfied with 1st Word Plus. These days even a small business requires good quality printed output, with well designed letter-heads and a range of different typefoces. I know that there are better word processors

available for the Atari but some of the terminology

Paperus Gold - possibly the best program or the Atarl ever... (GDDS, Speedo GDDS, Vector, Bitmap and so on) is confusing. Can you tell me what's available and what would be best for my requirements?

1st Word Plus is certainly a little long in the tooth now, Roger, and has been replaced by several worthy successors to the "top WP" crown. But let me first explain some of those confusing terms

A bitmap is a method of storing graphics (for instance, a character in a font) where each dot (pixel) is defined as being either on or off. A vector graphic is held as a number of point co-ordinates - for example, a triangle would be held as three

co-ordinate pairs. Bitmaps are much faster to display as any computer screen, or printer, is a bitman device as they are based on pixels. Vectors are slower to display or print since your comnuter has to take some time to translate the co-ordinates into a bitman. The great advantage of vector graphics are that they take up much less memory than bitmaps and you can change their size without losing any definition

.....................

GDOS, which stands for Graphic Device Operating System, is the old add-on for TOS that enabled programs to display a range of bitmap fonts. Because of the sizing problem, you required different sets of the same font in different sizes to display them on screen and to print them as the screen has less pixels per inch than do most printers. SpeedoGDOS is an extension of this add-on which also provides vector font support. NVDI 3.0 also gives you Speedo support, it's much faster than Speedo itself and is probably a better choice for your requirements.

The best two word processors on the Atari are That's Write 3. sold by COMPO, and Papyrus Gold, sold by HiSoft, The former is a more than adequate word processor with very good support for any printer's internal fonts, It uses SpeedoGDOS technology internally - you don't

even need Speedo. It does have a slightly non-standard interface, which in some areas borders on the clumsy. Papyrus is a real peach of a program with a totally standard GEM interface that's a joy to use. You will require either SpeedoGDOS or NVDI 3.0 to get the best from it, and it has no support for internal printer fonts.

Which you choose is up to you, but most writers at Atari World seem to prefer Papyrus. Best of luck with your purchase - write back and tell us how you got on. Graeme Rutt

#### Music Muddle

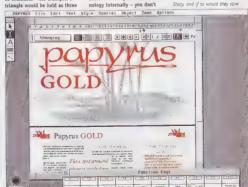


All of trons apply to

my Stacy 4/40, which I acquired second-hand. (not least, for its extreme handiness in using music programs, specifically E-Magic's Notator) and is mostly an ideal tool, with these notable exceptions,

The 40Mb of hard drive space is filting rapidly, and Atari is not very helpful (or forthcoming) in whether, and if so which, larger hard drive may be fitted Can you help? Also on the subject of hardware, can a my status as a computer neophyte) can anything be fitted to improve its general speed?

And now to software. Firstly, are packers/disk-doublers usable on the



things down too noticeably? And secondly to a problem that probably has a very simple onswer. I have several accessories on my "C" drive. which also contains and runs NepDesk 3. These are: BIG BEN.ACC. GOODIES, ACC. HOUTIL, ACC. KEYSLOT ACC, MAPPER, ACC, NVDI CONF ACC and TEMPOCAL ACC. of which GOODIES, HOUTIL, MAPPER and TEMPOCAL have related RSC fites. In the NeoDesk pull-down menu, clicking on "Next Slot" produces no reaction at all, while clicking on "Bia Ben", "Beats as mSecs..." and "Tempo Mapper" prings up a window with, "No MROS in memory" in it.

This is where I get really confused, because there is a folder called MROS which contains various files. Are these accessories usable, or should I take up knitting instead?

#### Adrian V. Thackray

A The Stacy, is a great tool for MIDI work, but it is a slow in comparison with the Falcon and IT. The internal hard disk is of the SCSI type and is one designed for laytop computers, measuring just 2.5" in diameter. You can replace it with a larger capacity one, as long as it is a SCSI drive. Using a disk doubler like Datalite works on the Stacy, but it will certainly slow down disk access.

As far as speed is concerned, you should get NVDI if you don't already have it, since it will most definitely accelerate the display of graphics and text



In Fontkit, make sure the Font Parameters are set correctly otherwise NVDI won't load your fonts.

on screen more effectively than a Blitter chip. Fitting a hardware accelerator board is not simple, but you may like to speak to System Solutions they may be able to help.

It seems that the previous owner of your system left some desk accessories that are of absolutely no use to you! Big Ben. Key Slot. Tempo Calculator and Mapper are all Cubase utilities and will not work without Cubase; NVDI Configuration is of no use unless you have NVDI installed. All these are just

taking up valuable hard disk space, so you delete them. The MROS folder is only needed if you use Cubase – that can go as well. Offr Gal

#### Fancy Font

I have bought HVDI but I don't like

the default Monaco font. How do I change it?

Paul Ross, Glasgow

There are two solutions.
The simple one is to
delete the files called
MONACO.FNT from the GEMSYS

folder on your boot disk. This will revert you back to the Atari font. Alternatively, you could install an alternative font.

First of all, you need to obtain some GDOS bitmapped screen fonts from a PD Ubrary. They normally have the file name extender "FNF" and may start with the characters "HS" or "RE". You could also design your own using a font editor such as Fontkit. It is usually easier to start with another GDOS font as the basis or a Fontkit screen font.

If you're not using a GDOS font, then you'll need Fontkit to convert it. Choose the





Face - a very fine replacement desktop, score a ne-se and more features than you can think of

"Global/Convert" font menu item, select "Gemfont", then "High-res" and "90x90" to get the Font Parameters dialogue box. If you already have some suitable GDOS fonts then load them into Fontkit and go to this directly. Here you need to give the font a suitable name, then an original ID number. You can't have a number used by any of your other GDOS bitmapped fonts. A value of 1 is usually

Next, you need to change the point size. For the 8x16 font, the point size must be 10, for the 8x8 font the point size is 9 and the 6x6 font has a point size of 8. Select Intel format. and make sure that the font is not compressed and is set to Monospaced not proportional. All these are most important. Save the font. Fontkit will give

Send Us Your Questions Can't find anyone to answer that nagging question? Then drop us a line. Our team of experts are on hand to investigate and solve almost anything you can throw at them. Just wad your letters to

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or email them to ogal@cix.compulink.co.uk

Write every effort will be made to answer your gaestion within the pages of either Atan World or Atari Pro please note that undividual correspondence cannot be entered the new font a name such as "H3MSB13R.FNT". The convention here is that the numbers refer to the point size. Change the "13" to "10" and in the other two fonts, the "06" to "09" and "05" to "08". Place these fonts in the folder where your NVDI bitmapped fonts lie. as stated in the PATH line in the ASSIGN.SYS file.

Load the ASSIGN.SYS file into an editor. Change all the lines starting with an "s" containing the MONACO font details to match the name of your new fonts, such as:

PATH = D:\GEMSYS\NVDI Olp SCREEN.SYS s H3MSB08R.FNT

: 6x6 system font 8 points s H3MSB09R.FNT

: 8x8 system font 9 points s H3MSB10R.FNT

; 8x16 system font 10 points

You don't usually need the 20point size font and the "s" is most important: it tells NVD1 which fonts are your system fonts. Now reboot. Mark Baines

Desktop Icons



zines that show program icons on the desictor. I've tried to do this on my system (Atan STFM, 2Mb memory, TOS 1.02) and it doesn't work. Can you tell me how to do it? M. Fotherington, Sussex

The problem is your version of TOS. To get icons on the desktop you

require TOS 2.06. As well as desktop icons, this version of TOS has improved disk-handling, a more functional file selector, keyboard short-cuts and lots of other functions not to be found on TOS 1.02. Get in touch with Systems Solutions or Compo for a TOS upprade.

\_\_\_\_\_\_

Alternatively, you might like to think about using a replacement desktop such as Gemini. TeraDesk, NeoDesk or Ease. These are programs that you install on your boot disk (a hard disk is best) and provide you with all the desktop functions you're ever likely to need. They are generally better than TOS 2.06 and will improve your desktop considerably. Gemini and TeraDesk are public domain products that you'll find in most PD libraries: NeoDesk is sold by Compo; and Ease by Systems Solutions, Graeme Rutt

#### Image Conversion



I run a business from my home and use the excellent

GEMView to convert clipart images from a variety of sources into the GEM Image files that Calamus 1.09n expects. While the Global Convert notion is very handy, and can convert a whole folder of graphics very quickly. I sometimes need to view the graphics first to check which I want to convert. I find it very labonous to load in each file separately and wondered if there was a way to load images automatically? Sean Green, Middlesex

There are various ways in which you can load a number of images at a time into GEMView The first is to use the Selectric file selector which is shareware and available from PD libraries. It enables you to select multiple files which are then loaded at once by GEMView.

Another solution is to use a replacement desktop, such as Ease, which enables you to drag and drop as many files as you want onto the GEMView icon. GEMView will then load and display those files.

Under GEM there is a limit of how many windows may be open at one time. If this is a problem then you might like to consider a freeware add-on called WinX that can up your window count to 40. Graeme Rutt

By using the Selectric replacement file selector with GEMView, you can select more than one file for automatically loading.



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### **Talk**Back

Each month, Vic Lennard puts an industry figure on the hot spot with four searching questions. To start the ball rolling, Neal O'nions, publisher of Atari World, is grilled...

The first question is the obvious one what on earth possessed von to launch a new Atari title?

"I'm a great believer in the longevity of the Atari marker. History tells us that computer platforms don't die overnight. Take the Sinolar QL - only recently I sold an Atari TT to a customer, with loads of memory and a large hard disk simply to run a QL emulator.

When I found out that ST Review was going to close (a bit before most people) I did sotually get involved in a possible buy-out. However when someone else put more money on the table ! decided it was better to launch a new magazine At the time I was a bit disappointed, but in retrospect it is the best thing that could have happened While Issue one of Atari World may not be perfect, starting with a clean sheet has enabled myself and my team to produce son cining much more relevant to today's Atari user I hope we nave schleved our éoal of taking the ST Review concept and making it better - the survey results will show

You seem to wear a lot of hats. You run COMPO, organise Atari shows and also fulfilled the ST Review offers with Go Direct. Can you cope with another 2

"This topic vexed me greatly when I started to plan Attar Word. How would people reset to a dealer who also owned a magazine." The most sturning thing has been the phenomenal support I have received from everyone sunce first starting to get this project off the ground. Doen though I was warred that there were not enough and everyone the word, Issue I sold out we've airred, word, Issue I sold out we've airred, sold out testure 2 and we are now selling issue 5".



Nest O'mions, publisher of Atart World.

"My commitment to you when you decided to edit this magazine was that editorial was your job not mine, I think you have a strong enough charreter to ensure that is the case!"

We have seen ST Action ST User and ST Review close, and ST Applications out back Why do you think you can buck the trend?

I think that other publishers have missed the dramatic change in the profile of a typical Nart computer user I supposed the Seasons I talk to active users every day I'm a bit closer to what I'm, and the season of the seasons of the

By choosing to bin the cover disk idea, aren't you flying in the face of conventional rossdom again:

"Readers get to choose Yes there is a disk you can buy from us every month, either by 'phone, letter or with a subsorintion. However the number of complaints about the price of Atari maga zines swayed my thinking. Our brend and butter audience are nobbyist users. and 44 for a magazine is too dear New users are coming into the market all the time, many by buying second-hand computers are they really going to fork out \$4 every month? I don't think so The only way to keep Atari World below £3 per issue is without a cover disk, and that is what we plan to do However, if the survey tells us different

## **Atari** World ontributors ark Baines, Denesh Bhabuta, Joe Connor, on Ellis, David Howell, Iain Laskey, Paul Van Little, Steve Padler, Alexa Linden, Douglas Little, Steve Pedler, A Robinson, Graeme Rutt, Harry Sideras Ian Wauch Tel: 01956 855643 Fax: 01487 773581 ouserve: 100124/2151 : SIMONP@SAÑD.WIN-UK NET Fax: 01780 55604 Email: midihəlp@c Subscriptions/Reader Disk orders Frances Flaherty, Tel: 01487 773543 Colour reproduction by Meridean Hou Newark Road, Peterborough PE1 5UZ Tel: 01733 312313 ted by Goodhead Heatset, Chauca mational Estate, Launton Road, Bl on OX6 7QZ. Tel: 01869 253322 World-wide distribution by SM Distributi 6 Leigham Court Road, Streatham, London SW16 2PG. Atan World is published by Specialist Magazines Ltd (Registered office: Saliabury House, Station Road, Cambridge CB1 2LA) No part of this publication may be reproduced, stored in any form of retrieve system or transmitted in any form by any means, mechanical, electronic or otherwise without the specific written consent of Specialist Magazines Umited: I rights reserved including translation into the languages © 1995 Spacialist Magazines Limited



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\* Falcon enhanced title. Some programs need extra memory and a hard disk to function, please check first if you are in doubt. Al offers subject to availability and strictly only valid to readers of this magazine and until 30 May 1995. E&CE © HISOR 1993.



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**Vision** 

Find out what the Falcon is really capable of...

### Inside

- See View what can the Falcon de ision to
- Musical Cheers hard disk recording round-up
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  DIP in true colour
- Power Plan delivers its stuff
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### **EXCLUSIVE!**

C-Lab unleashes

the Falcon



music

workstation





#### Airborne again...

Atari computers appear to have nine lives. Just when you lose all hope, something else happens to revive interest in our favourite system. The tatest news is that C-Lab, the German company behind the successful MIDI sequencers Creator and Notator, has announced plans to manufacture the Fairon Mk II. The new machine is specifically designed for the professional musician with improved audio and a built-in SCSI hard drive.

This is great news for all Atari enthusiasts because it promises further sales of the Falcon, encouraging ongoing development of programs like Apex Media and Cubase Audio. The additional sales may even revitalise the general Atari market, Digital Awareness, the UK distributor for C-Lab products has expressed interest in all aspects of Atari computing, from word processing to Internet access and beyond.

The real problem lies, in my opinion, with TOS. The operating system has not seen development for a while now and is quickly falling behind the likes of Windows and System 7.5. Apart from the obvious need for hardware development, a serious attempt must be made to bring TOS up to date. A possible solution might be to include MagiC with every new Falcon. MagiC has aiready proved itself as an ideal multi-tasking system for Atari computers. If C-Lab takes the plunge and appreciates that there is more to the Falcon than MIDI, the future for Atari computing will be bright ..

OFIR GAL, technical editor

## Flaunting



Ofir Gal unravels the truth about the Falcon's many display modes.

Marks File Edil Window Search Formet Style BINDER H when the Falcon sin TV mode Some simpler multiscan monitors are limited have problems with frequencies in between 4 5 6 . . . . If you switch to the MS1/2 milite nither of gu assume that your monitor is capable of displays first his out the trequencies I is really tapiat packing) Exceeding those frequencies (normal 8 - 4 HIL MAN AD It is probable that your monitor is able to do n READ THIS CHAPTER VERY CAREFULLY n normal VGA-mon tors, the old SM124 (and it is successor's SM144,SM146 ) and the SC1224/1436 the high voltage in the tube is directly produced out of the honzonta If the honzontal frequency differs too much from the standard value ( > 15.8kHz or > 31.5kHz or > 35.5kHz) it is very probable that the increased high voltage will damage

Supplying your monitor with unsuitable values might cause irreparable damage! Read

monitors can produce

the entire range of

The standard VSA made consists of a 640°480 pixels. Normally VGA means a 15 colour display as shown been

f there's one aspect of the Falcon that has confused even the most hardened Atari veterans it has to be the video display Many new users - this one included have been confused by the ambiguous

description of the video hardware years after the Falcon's first appearance, there is still no complete

Falcon resolutions." explanation of which resolutions are possible with the various monitor types

The Falcon features a fully program mable graphics board, but its capabilities are well hudden from the easied user In fact, without additional software, the choice of screen resolutions is rather limited and dependent on the connected monitor

In principle, the Falcon can generate all ST resolutions for compatibility These are ST High (640\*400 monochrome), ST Medium (640°200°4 colours) and ST Low (320°200°16 colours). In addition, there are VGA compatible modes. VGA resolutions are all 640°480 pixels, ranging from monochrome to true colour However how

well these resolutions are displayed and which ones are actually available depends on which monitor you have connected to your Falcon

You can use almost any monitor type, but only flexible multisoan

"Only flexible multi-scan produce the entire range of Falcon resolutions The basic choice is between the VGA and RGB varieties You

> can also connect a standard SM124 or compatible monochrome monitor and even a TV set

#### Atari monitors

Colour RGB monitors are already in use for producing medium and low res on standard STs. They are mainly used for games that run at low resolution. A TV



ST Medium res was created to allow users of colour monitors to use word processors and other applications.

## the Falcon

set can be used instead of an RGB monitor, although the image is not as clear

On a Falcon, an RGB monitor like the Atarl SC1224 can display low and medium resolutions. By using a technique culled interlacing, resolutions up to 640°400 are possible, ranging from pionochrome to true colour

Interiord display is fine for viewing photographic images, but is almost imusable for text or drawing due to screen tlicker.

The resolution can be stretched even further by using overscanning This method uses the black border area

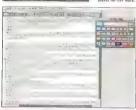
SET SCREEN RESOLUTION

ST LON | ST MEDIUM | ST NIGH |

OK | Cancel

You can run in \$T compatible modes, if old programs refuse to work otherwise.

Resolutions like 880\*656 via a screen expander are useful for DTP work.



#### Maximum resolutions with each monitor type

	2 colours	4 colours	16 colours	256 cotours	True colour
VGA	640*480	548*480	b=01480	5401480	3201240 480
RG8	440°200	640*200	640,580	6+0*200	6401200
SN124	640*400				

640x400 is possible in interlace mode when using an RGB monitor and can be pushed to 768\*480 or 768\*240 by enabling overscan mode.

#### Memory requirement of display modes

2.co.ours \_\_16.coloure\_\_256.co.oure\_\_\_\_two.co.our

around the display and therefore extends the resolution to 768\*480 The overscan mode is not available from the desktop, but can be enabled by using a small Auto folder program

RGB colour monitors are therefore best suited for games and image viewing using the high resolution true colour display despite it being interlaced Apart from the Atari models, saveral manufacturers like Philips (with the popular 8833) and Commodore have also produced good quality RGB

The trusty SM124 or a compatible monochrome monitor (like the older SM125 or the newer SM144) can also be connected to the Falcon Not surprisingly, only one resolution is possible with this monitor. ST fligh at 640x400 monochrome.

#### VGA and beyond

For most purposes a good quality VGA monitor is ideal for use with a Falcon All VGA monitors can produce the three ST compatible resolutions, but go much further than that

VGA is a loose turns that normally describes a screen resolution of 0404280. When connected to a Falcon, a VGA monitor will dasplay this resolution using 2. 4. 16 and 256 colours. Because of the limitation of the Falcon graphies board, and >200\*240 are possible in true colour mode, the first of which is perty useless. Apart from thus will be lack of owners facilities. a VGA type monitor will let you get a lot out of the Falcon visible brades.

Most VGA monitors these days are in fact Super VGA (SV) Compart ble. This means that this con happit display a screen resolution of 800°600 in a addition to the standard VGA modes. The Falcon is capable of generating these screen modes but not without the help of additional software or hardware

#### Resolution expanders

The Falcon video hardware can be pro-

cope with the resulting video signal Using freeware programs like PaleonSereen or commercial products like ScreenBlaster and BlowUp030, screen resolutions of \$000\*500 are accessed easily With links and a very good monitor, 1280 by 960 should be nossible.

If you Intend to use a resolution expander you should consider buying a multisean SVGA monitor. This will prevent later disappointment when you realise that your monitor cannot produce the extended resolutions. It is not cought to look at the resolutions quoted to the adverts. The most important factor's known as the Horzountal Scan Frequency A monitor should have a continuous horizontal frequency range of 30 to 60kHz to be able to cope with all extended resolutions.



True colour mode on a VGA monitor does not stretch beyond 320°240 which is only useful for games. Using a resolution expander. 500°400 or even more is possible depending on the monitor



ST High resolution is a monochrome display with 640\*400 picture elements (pixels).

#### About screen frequencies...

The number of times the screen display is refreshed each second is referred to as Vertical Scan Frequency. The SMIZ2 was known for fits stable and clear display which can be attributed in part to its high refresh rate of 70th. This means that the image is updated 70 times a second.

. ower refresh rates produce noticeable 4(c); with BORZ considered the absolute enrinkum for serious use. RGB monitors normally refresh at SCH monitors without using a VGA recoliter without any additional software on a Palicon Libe screen is refreshed at BORZ. Using a software or a hardware concern expander his viete can be pushed to 70Hz and beyond to give a Hitter-free display. Note that setting a horizontal, sizes a finite product of the setting and the product of the setting and the se

Kecol and



Ian Waugh takes an in-depth look at the Faicon's direct-to-disk recording abilities.

Music maestro

he Atari ST stood the music

world on its head by including a MIDI interface in its design It brought affordable MIDI control to the masses and played a major part in Every other current

the development of sequencers The Falcon gould well do the same for direct-todisk (d-t-d) recording. It has a built-in

DSP (Digital Signal Processor) chip, the

Motorola 56001, which operates at 32MHz and which can be connected to all kinds of external peripherals. Among other functions, the ohip can convert analogue audio signals into digital ones and vice versa. Every other computer currently on the market with the excep-

tion of the AV Apple Macs require an additional piece of hardware to do this

The Falcon also has an eightchannel 16-bit digital DMA sound port with up to 50kHz sampling rate plus stereo DMA audio Ins and Outs. Put it all together and you have the foundation for a very affordable d-t-d computer

It seems natural, therefore, that cost-conscious musicians are looking to

the Falcon as an affordable d-t-d solution and it's not surprising that many music software companies have produced some quality d-t-d

software for it

computer requires additional hardware

for hard disk recording

Current programs

Current d-t-d software falls into three camps - tracker programs, multi-track digital recording software and programs that combine MIDI sequencing with dig-



Compo's TrakCom - up to ten tracks nies an interrated. though basic. sample editor.

> 020 4T/FX was one of the first d-t-d systems to appear and offers four tracks and built-in FX.

Aimed at the bick and of the market. DiniTage offers a modular, dedicated approach to hard disk recording.

Trackers are great fun and offer an alternative way of making music to MIDI They use samples which can contain instrument or vocal sounds, and even complete bass and drum loops so you don't have to be a master musician to put a piece of music together

TrackCom (£79) from Compo supports up to 10 tracks and includes a sample editor There are also some shareware and public domain trackers such as Stormtracker, which uses music notation, and Octalyser, which supports eaght tracks

The most popular Falcon d-t-d application is digital recording. Clarity 16 Falcon (£99) from HiSoft builds upon the success of the ST Replay samplers and is ideal for experimenting and messing about with samples

Audio Tracker (£159, from System Solutions is slightly more upmarket, being an eight-track digital recorder







Notator Lank Audio (above) and Cubase Audio (left) are EMagic's and Steinhern's d-t-d offerious for the Falcon Soth include heavyweight functions at a fraction of the price

of a Mac/PC system.

...........

with a mixer and effects unit. The wave editor allows pon-destructive editing.

Audio Master (£199) also from System Solutions is a stereo mastering system aimed at the pro end of the business with features such as nondestructive editing, real-time cross fades, loop functions and sophisticated marker handline. You can expand the program by adding Equaliser (\$249). Analyser (£199) and MIDI sync (£99) modules although for a more modest £199 you can get a cut-down version of the three modules with Audio Master

D2D 4T/FX (£299) from D2D Systems was one of the first d-t-d systems to appear and the design is a little chunky It's a four-track system with built-in FX. DigiTape is another profrom aimed at the higher end of the market with a price to match - \$499 It has lots of features but it really needs a few more to justify the price

MUSICOM 2 (£79) from Compo works in mono or stereo and lets you

#### Mods for rockers

Before you rush out and buy a Faicon, if you haven't done so already, there are one or two things to be aware of.

The original Fairon architecture had a few features that were inconsistent with the computer's d-t-d aspirations. In other words, bugs to you and me

In particular, modifications need to be made to the CPU clock to prevent distortion and you may want to remove the bass boost and make the azdio sockets line tevel.

Companies such as System Solutions will perform the mods on any Falcon they sell and if you have an anmodified machine the company will fix It up for you.

create a sone by assembling sections of recordings in a playlist. It has a handful

of effects but these permanently alter the file, version 1 (£49) is still available but you would be doing yourself a favour by paying the extra for version 2

up to 16 audio tracks. integrated with the sequencer's MIDI tracks

Factory lets you change the pitch without changing the length and vice versa

and there are func-Cubase Audio supports tions to help you match the tempo to an audio recording and create a MIDI

Groove from the audio data The Relonn is well

equipped to handle digital audio and there are lots of d-t-d programs available to suit everyone from the hobbyist to the professional musician It could well do for d-t-d what

Integration

For many musicians, being able to add digital audio to their MIDI tracks is the ultimate in music production. Steinberg was the first to offer this with Cubase Audio (£799) from Harman which now supports up to 16 audio tracks integrated seamlessly with the sequencer's MtDI tracks. You can mix down any number of tracks into a mono or stereo track and effects. The Time Stretch function can change the length of a recording without changing the pitch

Emagle's Logic Audio (£508) from Sound Technology is another top-end system and choice between this and Cubase Audio is very much down to personal preference. It has a potential of eight audio tracks and includes an 8 into 2 mixer which mixes the audio tracks into a stereo output. The Digital



#### the ST did for MIDI What's d-t-d?

D-t-d or direct-to-disk recording is the process of putting audio signals onto a hard disk. To do this, the signals must be converted into a digital format using an A-to-D (Analogue-to-Digital) converter. A B-to-A converter reverses the process.

The conversion process is similar to that used by modern camplers but whereas camplers store their data in RAM, with d-t-d, data is saved directly to a hard disk. During playback it is read from the disk and converted into an audio signal on the fly. This means that the only limit to the amount of audio you can record is the size of your hard disk, not the amount of RAM in your machine

However, digital audio data does consume a lot of disk space. Around 10Mb of disk space is required for one minute of CD quality stereo sound recorded with a sample rate of 44,1kHz with 16-bit resolution. You can record at a lower sample rate to save disk space or the number of bits but this brings a noticeable drop in quality.



MUSICON 1 (above) gives you some fancy DSP effects but no hard disk recording. Audia Master (right) includes non-destructive editing and

cross-fading



## Come In umber



With Atari showing no sign of further Falcon development, it has taken a German software company to see the potential in the music market. Only a few months after the initial announcement, the Falcon Mk II is now shipping as Ofir Gal finds out...



audio erroustry and SCSI interface have been improved to ensure high quality audio and fault free disk access

The new machine is essentially an Atari Falcon that has been customised to meet the demands of the professional musician. The spec is the same - the machine is no faster with the same graphics and easing - and in looks identical to the Atari Falcon except for the C. Lab badge at the top of the keyboard

C LAB FAICON MK II

Here in the UK

Digital Awareness is a new company set up to hand,e the distribution of the new Falcon in the UK Part of the Digital Village group Digital Amareness is headed by Pau. Wiffen a .ong-time Falcon user and highly regarded music journalist.

"I was offered the UK distribution because the idea for the C-Lab Falcon came about through discussions between Burkhard Bergerhoff of C-Lab and myself," explained Paul "His original plan was to create a PC based music and digital audio weekstation. He became dual luctored with the idea because musicians don't really want to worry about AUTOEXEC. BAT files and MIOS drivers. The Falcon had the obvious advantage of being music-ready, with MIDI ports and built-in 16-bit

"When I demonstrated just how powerful the Falcon was when running Cubase Audio, he called it The best kept secret in the music industry", recalled Paul.

Asked about future development of TOS, Paul replied: "To retain 108% backwards compatibility, we are shipping TOS 4.04 on all machines because it works fine with musical applications. The C-Lab licence allows any modifications to both hardware and software and one of the things we are looking at first is how TOS can be Improved. We are also looking at adding a second DSP and a separate video card.

"When I became the distributor for the C-Lab machine I knew nothing about non-musical applications and have spent the last six months educating myself. I have become a real fan of programs like Apex Hedia, Vidi ST and Papyrus, 1 have also inited CIX, the UK conferencing system, and I look forward to mixing with the Atari on-line community".

C-Lab has added a SCSI board to support an internal SCST drive.

The casing remains the same - but the logo has certainly charged!

ainted orrectly at the MIDI a working solution for

mustelans who need

direct-to-disk recording C-Lab engineers studied the problems experienced by users of applications like Cubase Audio and soon

devised the appropriate solutions. The

#### A vision for the Falcon

I space briefly with Burkhard Bergerhoff the man behind C-Lab Germany about the company's plans for the new Falcon. He explained that at first C-Lab will be tooking at musica, applications. Its next projects will include various add-ons to provide the Falcan with a SMPTE interface, dipita, I, O and ADAT compatibility among

C-Lab recently decided to co-operate with its long-standing rival, Steinberg, and the two competitors could even be seen sharing a stand at the '95 MusicNesse show in Frankfurt.

"C-Lab will now work together with Steinberg to ensure reliable operation of Cubase Audio," said Burkhard, "We are also looking at the possibility of making the Falcon more ST compatible, so that devices tike the Hider will work with it. We will do everything we can to make the Falcon into the ultimate music workstation".

The Falcon Mk II ships with the full 14.2 Mb of RAM and an internal 514 Mb SCSI drive with ICD software preinstalled. The improved audio board is now properly adjusted to line level suitable for direct connection to -10dB equipment. The analogue signal is now insulated from interference prior to the digital conversion and the D-A converter has a dynamic anti aliasing i lter optimised for higher sampling rates than the Atari original Comp it brats was maintained by using a higher spec board from the same manufacturer used by Atari itself

I only had a short time in which try out the new Mk II but one thing is immediately obvious - the audio quality is much improved when compared to my Atari Falcon. The bass boost is gone, along with the odd clicks and extraneous dither noise I tested the system by recording and then playing back eight simultaneous tracks and the Falcon performed faultlessly



Quantum SCSI drive Manufacturer ( Lab. Ger

UK Distribution: Digital Awareness Contact: 0181 597 2513 RRP 12 344 (optional extras ~ V&A member £198, SyGuest £599)

## SOUND ON SOUND



VOLUME 10 . ISSUE 6

**GNIDC** 

## Bird on a

Ever wondered how far an Atari can take you towards your own publishing empire? Nial Grimes explores the Falcon's colour DTP potential.

Nest modern Atari packages support Falcon screen modes, but order software will need to be upgraded



ury few computer applications rely on colours as beavily as desktop publishing. After all, the computer is the second of the computer that is seen as the only thing that is seen as the only thing expensive imagesetting mistake. Much the same goes for all of the other states along the way, scanning, recooling, graphics design and image processing, graphics design and image processing.

> Improve the ST's graphical prowess. And not only does the Falcon provide improved graphies, but it has the muscle to throw them around too m terms of raw processing power, it is about four times faster

means that it's usu-

ally cheaper to

buy a Falcon

than to

than a standard ST The built-in digital signal processor (or DSP) can also raise the performance curve when it comes to decompressing

JPEG

images on working with filters. The immediate advantage of a Falcon is being able to work on colourful images at a pixel level. On paper, the Falcon's 15-bit Time colour." Singhly looks well short of the 24-bit colour used by most colour filter it's the difference between 32,768 and 167 million colours).

However, in practice the difference is barely noticeable. Retrouching with packages such as Studio Photo, Reproblement of the packages such as Studio Photo, Reproble on a Falcon - it's a pleasure? You'll also find that most retrouching impelligates are faster in true colour because the computer has it forced to devote precious time to dithering. The only drawback is the limited space offered by Falcon offered by it is not considered by a fine of the process of th

Most of the same advantages are apparent when working with image processing offects. On an 8T it's hard to see the results of a speed-blur or contrast adjustment but in 256 colours that situation changes completely. More subtleeffects of or equive a switch to true colour, but by using a magnify tool you can get a good overall tides of what's



A screen expander is an essential purchase

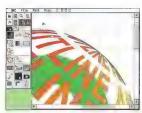
- even the software version of BlowUp can



Some packages, such as Floppyshop's soon-tobe-released Positive Image, benefit from the power of the DSP.

## wire





going on Some image processing packages take advantage of the DSP to speed up image loading and filtering - Studio Photo supports the Brainstorm JPEG loader and Positive Image (preview, page 27) uses the DSP in many places

Outline Art users are stuck with a 16-colour display. but the dithering is very effective.

#### Colour clash

With perfectly adjusted Images sitting on your hard disk, the need for oodles of colours on somen is less intense. Just as well really, because desktop publishers benefit more from extra screen space - BlowUp or ScreenBlaster make a real difference. The best policy when working with colour documents is usually to do the bulk of the work in a 16colour mode and then make any final adjustments with the full 256 This makes sense from both a sneed and memory perspective, because the processor advantage offered by the Falcon is quickly eaten up by colourful soreen displays containing many times the data of ST resolutions.

Having spent money on a machine with true colour potential, even the 256 colour limitation may seem annoying but when you see just how well some packages can use those colours, it's really not a major problem. To be honest, you are not going to get much closer to the finished output without thinking about monitor calibration

No doubt you also use a vector graphics program in tandem with your desktop publisher and these too are improved enormously by a decent colour graphics mode. Most of the

DA's Vector Pro Is perfectly at home in most falcon including those from by BlowUp

can also be used on

an RGS monitor





graphics programs will deliver a colourful display on the Falcon, DA's Vector among them Outline Art 3 is stuck with 16 colours, but the quality of dithering is good and a big improvement over a mono ST

The Falcon also holds other benefits for the desktop publisher, primarily the ability to manage memory effectively Calamus documents are enormous by nature and a single true colour image can stretch to many megabytes. The Falcon's 68030 processor allows the use of virtual memory - disk space that the computer thinks of as normal RAM You do pay a speed penalty and the software itself is around £80, but it does open almost limitless horizons in terms of both image processing and DTF

The Falcon is a remarkably sound proposition for the semi-pro desktop publisher It's an arm and a leg cheaper than a TT with graphics card and yet provides a reasonable degree of the power. If you already own (or can afford) the software to take advantage of the extra potential it's an excellent upgrade choice

#### Choice colour!

Calamus runs in three colour modes on the Falcon. Let's take a look at what you can expect



The standard ST-style display is fine for mone work, but (so't much help when choosing coloured tints.



in 16 colours, but more is needed for a faithful representation of the image



get to work in providing a reasonably accurate display

#### A la mode

The standard Falcon offers quite a range of different screen resolutions and colour depths, but those of primary interest to DTP are 640\*480 in 16 or 256 colours and 320°240 (or 320°480) in true-colour. Higher true-colour resolutions are only possible on an 868 monitor and the flickering, interfaced display makes it less than ideal for nrefessional use

These modes seem like a buce lump up from ST high resolution, but it doesn't take too long to realise that still more space is useful for colour DTP. Fhanks to the flexibl.ity of the video hardware, software alone can yield some impressive results - Calamus SL runs very picely in 800\*608. and the refresh rate of just under 60Hz is reasonably stable. For higher frequencies and resolutions, you need to look at some hardware. Blowlin and Screen Blaster are the two premier choices and both can give you a wide range of usable modes for well under a hundred auid.

Another alternative is to use a virtual screen, which provides more pixels without requiring a special monitor or affecting the refresh rate at all. All versions of Blowlip include this facility and some alternatives are also available in the public domain; a nifty little French program called BirdWings is certainly worth a look (Floppyshop disk number F4783)

## Follow the DSP code

The Falcon's DSP really can make a difference. Programmer Douglas Little demonstrates its many talents...



and converters can

even outperform

66MHz PCs."

he Atari Falcon030 has been around for a few years now and we have seen a number of new programs emerge that elaim to

he revolutionary in their use of a specul chip known as the DSP 56001

This is all very well for program mers and the technically inclined but what does this real-

ly mean? How exactly can one more bit of silicon make a difference to performance or benefit the user in any way?

Before we set about trying to answer this let's look at the DSP in some

detail DSP is short for Digital Signal Processor What's more, it's a 24-bit RISC device for processing digital signals. I'm not going to get into a major

technical discussion about RISC "DSP image viewers

(Reduced Instruction Set Computing) but the idea is that you make a processors design simpler in order to make it

perform operations n faster - the problem is that you sometimes need more operations to make up for the new simplifications. Catch 221

The real point is that you don't always need to compensate in this way



Anex contains a snecial field-warning engine written entirely in DSP assembler which allows the user to define magnetic lines to distort or even morph images together.

- especially with arithmetic calculations that are needed when processing signals. This is why the DSP has to be RISC - otherwise It would either be too slow to keep up with the Incoming information (especially in real-time audio applications) or it would be too expensive to use as a secondary ohip.

The Motoroin 68030 on the other hand, which is the Falcon's central processing unit, as based on a CISt. (Complex Instruction Set Computing) design which is quite different. It's a really complex system that is slower as a result. I'm not referring to the fact that the DSP has twice the MHz rating of the CPU - the DSP is still much Isster even at 16MHz

BOBTracker, uses the DSP to generate four channels of sampled sound.

Parameted texturemapping effects at high frame rates mean exciting games tike Wolfenstein and







#### Little engine

The digital signals we are dealing with here include audio (samples), video (draphics) and communications (modems) as these are the most common types of electronically transmitted information. The DSP processor agts like a little engine, responding to commands from the main CPU (the 32bit 68030) and parrying out repetitive tasks very quickly indeed it can effectively receive, dismantle, modify rosesomble and transmit sidnels one element or "particle" at a time at a horrendously high rate. This makes it ideal for synthesising musical instruments sound effects and other audio anni-estions

Unfortunately, many programmers have not been looking outside the boundaries implied by the term Digital Signal Processor and seem to support the device only when it flist the job description exactly TLIs is a great shame and as a result the Falcon's hardware has been wastly underused.

It is becoming on four that the extensive of one was dash programmers have made from native assembly line. Bugget to C in the last few years have lined from make efficient use of such hardware. It has nothing to do with how good or but the C language is an one of the best programs have a balanced mar, it is more to do with the fact that DSP processors cannot be programmed properly without assembly language and it's a diminishing made.

The DSP excels at 3D graphics. Here we can see a standard Phong-shaded image (with some surface attributes) displayed in one of our model editors. What you can't see is that the image is drawn in real time once every second!

#### Good news!

The good news (ves there is good news (ves there is good news) is that programmers are at last beginning to see the light and programs are trickling out which make use of the DSP for other purposes. There are one several PEG image stewers and conservation and the programmer of 60MHz PCs due to the chip's ability to perform the arithmetic required for PEG decompression so quickly

Apex Media has 20 or so DSP proframs embedded insake the code, more than half of which would not be present otherwise or would in the very least has been irritatingly slow. As result, images can be morphed together to produce a frame in seconds or a whole anmation in minutes, eliminating the need for low-quality perview modes - something even the fastest PCs are hard pushed to manage.

The next highest he world of 3D graphics DSP drips can one way to the compiler, marks involved in 3D calculations, at a rate that many programmens will find difficult to believe in the near future, we can expect to see rendering programs which produce images in seconds not hours or days. One of the things we have been developing at Black Scorption is a real-time renderer which can draw light-controved, texture-mapped marks at NOV high speeds. Small fractions of a second in fact

The quality is not what you would expect of a full raytracing or rendering



package but the ability to move around these scenes in real-time is something one severally for the Falcon. This mort of technologh is very useful for games and, to be homest, any 3D Falcon game which does not perform more than 50% of its calculations on the ISP is a sad waste of a good opportunity.

So if you are a programmer, get a reference manual and get cracking. And if you're not, find one and threaten to confiscate their hard disk (or worse) until they agree to learn DSP code. It's definitely worth the effort.

This example demonstrates texture-mapping, simultaneous Gourad and Phong shading. The image is redrawn unce avery two seconds in this mode. If the shading is disabled, the frame rate jumps to 20 frames a second!





#### What the DSP's good at...

Audio

Synthesis

FX processing
 Filtering and noise induction

Analysis and audio transforms
 Sample compression and decompression

#### Video and graphics Bitmap translation into other formats

Bitmap translation into other termats
 Dithering and colour reduction

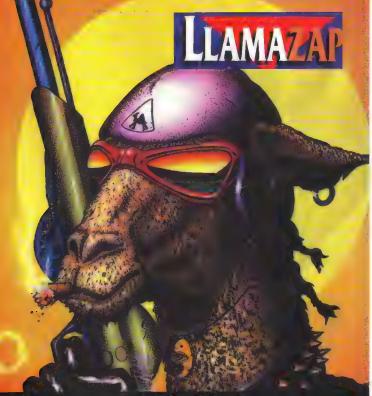
- LZW type compression and decompression of GIF and TIFF files
- Decoding and encoding compressed JPEG images
   Decoding and encoding MPEG (compressed video) data
- Rotation and scaling of bitmaps
   Morphing and magnetic distortion
- Morphing and magnetic distortion
   3D graphics
- Rotating and adding perspective to 3D objects
   X, Y and Z-Clipping of polygons
   Separation of communications and variety
- Generation of curves, polygons and vaxels
   Sorting and spatial bounding of objects
- Sorting and spatial bounding of objects
   Real-time Gourad and Phong shading
   Real-time floor and wall mapping (Boom
- style)
   Real-time FDTM (Free Directional Texture Mapping)

These two snapshots of a strangely lift olygonal room were calculated using a very intensive algorithm known as radiosity. It is mally avoided as it is even slower than raytracing. Here, however the DSP is displaying the room from the radiosity data in real time at a rate of about 10 frames every second. It's

not true real-time

radiosity but it's

pretty close ...



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### Ofir Gal and his team of experts set about solving your problems...

I fancy trying some games programming. Bearing in mind the system I have at the moment, I would like to know just how much of the equipment I have would wark on the Fatcon. I am toying with the idea

of buying a 1Mb Falcon with no hard drive

I would also like to connect my exter-

and then using the four 1Mb SIMMs to

nai Protar drive to the Falcon, so giving

me a 4Mb RAN. 120Mb bard drive Falcan

system. I know I should be able to connect my anoter as it's an industry stan-

dard, but what about my external Roppy

tant, how compatible will my software be?

I have heard about the "Backward" utility,

drive, and finally and really most impor-

but would that work with most of my

upgrade (t.

#### Upgrading To A Falcon

I am a 31 year-old computer programmer an IBH mainframes and married with kids.
I have an Atan STe upgraded to 4Mb, external flappy drive, Philips monitor

There on Autor Tee upgraded to 44th, external figure, arive, Protor II 120Mb hard drive, switch-and NVDI 2.5. I have boilt up my system over a three year period and an very happy with it.

I will be totally honest and say that its main use (for the kods and me) is to play games on, although I do all of my home accounts, letters, dabble in the accounts of the poster, art, and, if my infer would let me spend a bit more time on it.

#### Send Us Your Questions

Can't find anyone to answer that nagging question? Then drop us a line. Our team of experts are on hand to investigate and solve almost anything you can throw at them. Just send your letters to.

Atari World Q&A, Specialist Magazines Ltd, Unit 3 Green Farm, Abbots Ripton, Huntingdon, Cambridge PE17 2PF or email them to:

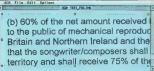
ogal@cix.compulink.co.uk

While every effort will be made to answer your question within the pages of either Atari World or Atari Pro, please note that individual correspondence cannot be entered into.



If you want to play games like Frontier Elite then forget about the PC and a Janus card?





(b) box of the net meant received to the public of mechanical reprod Britain and Northern Ireland and the at the songeriter/composers shall reliary and shall receive 75% of th

QCR is a public domain optical character recognition program that works well on the Falcon.

Home Accounts 2, Timeworks 2, Protext 4.5, Write On, Frantier Elite 2, Monkey Island and many other games. Just how good is Backward?

My next question concerns my Protor II hard drive, When I bought it I was told that ail the wiring and power supply were already in place for a second drive. Is this true - is a bare hard drive the only thing I need to buy, and if so what sort? Would o second hand one from a PC (for example, via Micro Mart) suffice?

And finally, I have also been toying with the idea of buying a hand scanner with OCP software. What I want to do, and indeed have stready started, is to compile a large "hint and tips" database. So far, I've simply typed all the tips in from

magazines Using OCR software, would it be possible to scan the relevant hints/tips, directly from the pages of your magazine, bearing in mind that there are quite often pictures included in or around the text

The Janus card for the PC does sound interesting, and might give me the best of both worlds. So would I be better burne a Falcon or should I get a PC with a Janus cord - will this then give me 100% compatibility with my existing software? M. Moore, British Forces

Although hailed by Atari as a brand new machine, the Falcon is not that different from the STe. It has many new features and it is, of course, faster than your system. but compatibility is surprisingly very

The Falcon cannot take SIMMs directly: you will need an adapter in order to tray to use your old memory, There are several such boards on the market including offerings from System Solutions and Gasteiner Technologies. But there is a very real possibility that your SIMMs will be incompatible with such a board as the 120 nanosecond versions are often too slow - make sure you consult the board supplier.

Your Protar hard disk should work, but will have to underes minor surgery to bypass the SCSI host adapter which is not required by the Falcon. It would also be a good idea to use the Atari hard disk driver (AHDI), which is freely available, instead of the Protar one. It should be fairly easy to install a second hard disk in the Proter rase but make sure it's a SCSI unit and not the IDE variety used in most PCs.

The printer port on the Falcon is identical to the STe, so no problems there. Unfortunately, there is no external floppy port on the Falcon. although, according to a message on the Internet, it may be possible to install one as the circuitry appears to exist within the Falcon. But such a modification would certainly invalidate your warranty.

Compatibility is pretty good. Home Accounts 2 works well as does Frontier Elite 2. Timeworks 2 has some problems - it's worth considering a move to Calamus, DA's Layout or, possibly, Papyrus, I do know that Protext v5 and v6 work on the Falcon but I'm not sure about v4.5. That said, the upgrade from Arnor is very

There are several OCR programs available for the ST and Falcon. The best I have seen is simply called OCR and should be available from public domain libraries. Most OCR packages have facilities to get around the problem of embedded pictures.

As for the Janus card, this is not an ideal solution and compatibility would certainly not be as good as with a Falcon. It is also much slower than a falcon, so I would not recommend it unless you actually prefer a

PC, especially as it will not run the majority of Atari games for starters. Offir Gal

#### Booting From An External Hard Disk



hand MegaSTe 4 internal hard drive but the drive is

both slower and smaller compared with the one I had with my old STe. I'd like to have them both connected, but boot from my external ADSCSI drive

I have no problem getting them runring together, so I know it's nothing to do with parity settings or termination reststors. But whatever I do with the SCSI ID numbers of the drives, either one of them is unrecognised altogether or the internal one boots first. The manual seems to cover everything but this! D Root, via Internet

My friends on the Internet have just helped me with a similar problem I was having. The first thing to note is that you cannot set the internal drive itself to anything other than SCSI ID 0 when using the Atari host adapter. However, you can use the red DIP switch block on the host adapter card to reassign the ID to a value between 0 and 3.

Take a look at the accompanying diagram. When all switches are set to the "ON" side, the drive will be assigned an ID of 0, If switch 3 only

is moved away from the ON position, the drive will be assigned and ID of 1. Similarly, switch 2 only will give an ID of 2 while both will give an ID

Now all you need to do is set the SCSI ID on your external drive lower than the internal and you should have the set-up you want. Harry

#### Using Minix-ST



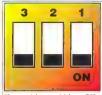
I nuthand Hintz-ST

version 7) operating system written by Prentice-Hail, Could you please

tell me if a company or a user group is supporting it? If so, can you give me their address as I would like to upgrade to a newer version. I am running a 520STFM with various modifications: 4Mb RAM, Overscan, Turbo 25 accelerator, NVDI, TOS 2.05, MassC OS, 270M8 hard drive and a Star LC-10 9 pin annter Mark Coulson, Surrey

Minix is sadly no longer supported on any platform. With the introduction of Linux a couple of years ago, its popularity has dropped rapidly. UK support used to be provided by The Minix Centre in Norfolk but it has now moved on to Linux. They tell me they may still have some odd pieces of ST Minix software such as the Gnu C compiler lying around. Give Ralph Allan a call at Unitech Systems on 01953 788028.

Perhaps you may want to consider MiNT as an alternative? It is also very similar to UNIX in many ways and has a good range of shells and utilities. Linux has also been ported to the Atari range, but you need at least a TT or Fairon to run it. Iain Laskey



Toward front of MegaSTe

If all switches are set to ON, the internadrive's ID is set to 0.

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# STSource

## One in a Crowd

We help you create a custom start-up disk

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### Inside

- 2 Start Me Up what happens when you flick the power switch?
- Getting Ready creating and working with an Auto folder
- 10 Auto Programs
  to the best enhancers
- 12 Desk Accessories ten
- 14 Language Barrier make 14 your ST a jargon-free zone!

See page 6 for some stunning Readers' Offers!



## A new beginning Welcome to ST Source, Atari World's beginners' section. Over the next few months you'll find articles explaining different aspects of your Atari, from

aspects of your Atari, from simple tasks like making a boot disk, to step by step tutorials showing you how to get the best from your machine.

If it seems a strange thing to include when Atari STs have been around for almost a decade, just stop and think. Walk into Dixons and you're looking at a four figure sum for the latest all-singing, all-dancing IBM compatible PC. If you're on the first rung of the home computing ladder, you don't need one — and you probably can't justify the cost either.

This is why second-hand STs are stilling so well. Ten years on, the ST still offers reliability, ease of use and a mature, enthusiastic marketplace full of knowledgeable people willing to help everyone else. The Atari world may be small – but rest assured Atari World won't bet Support us and we'll support you over the coming months in these ever neases!

ANDREW WRIGHT
Assistant editor

## Put the



Andrew Wright gets tough with his ST this month and gives away a few secrets about the booting process.

The ST's desktop - LETTER BOC and WORD.PRG are in the root directory as they are outside of any folders.

hat really goes on when you ewitch on your machine. OK, let's try and work it out Make sure the floppy disk drive is empty and switch on your and the disk drive grinds away briefly "your ST is actually checking to see whether there's a disk, in the drive."

After a minute or so, you'll see the familiar might green screen and three looss labeled. Floopy Dish A, Floopy Dish B and Trish! If you'l's using a colour monitor or TV, you will be in low resolution and the screen will be 320 pixels wide by 200 high. This is the default desktop that is arroad in the comporter's permament memory, known as the read-only memory or ROM.

Put a non-game disk in the drive and press the reset button. Things get a little busser. Spotting the floppy disk in the drive, TOS rubs its little hands together—it knows it's got some jobs to do and it sets about them methodically

First of all it looks mot the part of the flopop disk called the Boot Sector, flow of four things will normally be here. There could be a loader program. This usually happens if you unsert a commercial game disk and explains why they often load straight away without you ever seeing the dealton, Secondly there could be a virsa' After all, a virsus sonly a program. If there is you'll know sooner or later but not straight away. Bort worry about it for now

Thirdly, there could be some special code that produces a "virus free" message on screen when you boot with that disk in the drive Many disks from PD

libraries are like Desk accessories are this. If the message is there, the virus programs that remain isn't - a bit upside down but it beins. in memory, waiting to I did say four. didn't I? Well, the be called upon - a bit

fourth thing is nothing at all If like a butler you format a disk on a virus-free system the boot sector will be empty (apart from a few bytes

#### used for technical information) Low or Medium Res?

Assuming you've got your ST hooked up to a TV or colour monitor, you will have a choice of two screen resolutions; low or medium. All the screenshots here are in low resolution because they are easier to see for totorial purposes but, in reality, medium resolution is better for working in as there are more horizontal pixels (640 by 200) which makes the characters clearer



Changing screen resolution on a colour monitor or TV.

If you happen to have a mono monitor such as Atari's own \$M124. you won't have any choice, but you don't need one - your screen will be crystal clear in high resolution 1640 by 400)



#### On auto

After this procedure your ST looks for a folder on the disk labelled AUTO If there is one it erromete to run each

program with a \* PRG extension that it finds inside (the three letters in the filename that come after the dot are called the extension) These programs are loaded in

the order in which they were placed in the folder in the first place. They are specially written to behave this way - don't expect your word processor to run from an auto folder! Often these auto programs will stay is authory carrying out particular tasks such as speeding up the screen

Once the auto programs are loaded. the operating system scrutinises the root directory. Files that aren't in folders are in the root directory, but at this point your Atari is only interested in one particular type of program - the desk topessory If it comes across a file with a " At a Atansian it assumes it's a desk recessory (which it should be)

Desk accessories are programs that remain in memory, waiting to be called upon - a bit like a butler. Once the boot process is finished you can find their names under the Desk menu. Clicking on a name runs the desk accessors "program" Unfortunately the ST only normally loads six desk accessories, the first six it comes across. If you have more than six in the root directory the system can become unstable

There's one more little thing that your ST does before it hands control back to you. It searches the root directors once more for a file called DESKTOPINE (NEWDESKINE in later versions of TOS). This contains a lot of information about your system what colour the desitop is tif you have a control panel accessory installed). where the windows are positioned, which drives are available, which toons are where and much more. If it doesn't find one, you get the detault desktop stored in ROM

#### Formatting a disk

Boot your ST and when you see the desktop, insert the disk you want to format. It doesn't matter if you've formatted it before as long as there's nothing important on it.



Salart the A SIABBY BISY Ican and Index the File menu select Format.



You will get a warning just in case your best-seiler is on this disk. Ignore it and click on "DK".



Next comes the disk formatting and copying dialogue box If you have an early version of TOS (this is an STe) it may took a little different but they are basically all the same. Where the dialogue says "Labei", you can type the name of the disk - "BOOTDISK" will do but it is purely optional. Make sure the double sided option is highlighted (you won't be able to if you have a singlesided drive) and also the drive A button



Clicking on "OK" starts the drive hum ming and the bar in the lower half of the dialogue box starts filling up, illustrating how much of your disk is formatted.



When the formatting is complete you'll see a dialogue box telling you how many bytes there are free on the disk. A disk in cond condition will have 725,016 bytes free. You're now ready to roll and turn your newly formatted disk into a boot disk.

## First move



GD\_FLAGS, a freeware utility that keeps an eye on your bits! nee you understand the boot process, It's time to put that knowledge to good use. On pages 10–13 vou'il find lots of ideas about the programs you can put in your Auto folder and which accessories you might need. First of all, we'll show you how to make an Auto folder and put them all togeth-

er on a boot disk in our two special step-by-step guides.

Once you've copied the things you want, it's a good idea to add that one essential ingredient – the DESKTOP INF file. When you have the desktop looking the way you want it, with the relevant

Andrew Wright shows you how to sort out that boot disk once and for all!

Icon see clearly...

There are five types of 'con in the ST's graphical interface; two on the desktop and three inside the windows. The offer (cons, the ones that look like filling califries drawers on the desktop, represent the disk offers. Naving a B offer way seem strange if you only have one drive but in fact kit's a wirtual disk drive and with ler file copying as you can see from the step-by-tepl.

The other desktop 'con is the trashcan or wasteble. It's pretty efficient at waste collection too – as soon as you let go, it's gone! I wish my local refuse collectors were that good...

Inside the windows are three icons: one for folders (with a small tab), one for programs (with lines across the top) and the other for ordinary data files (it looks like multiple pages).



The various icons in the ST's interface

#### Creating an Auto folder



An Auto folder is no different that any other folder - It just happens to be called AUTO, that's all. Make sure you have selected the boot disk window and that the root directory is visible (you're not inside any folders. Under the File



In the resulting dialogue box, type in the word Auto - it will appear in upper case but it doesn't matter how you type it.
Click on "OK" and the folder will be created.

toons where they're most accessible and the windows in the position and viewing style you've decided upon, you can look under the Optoons menu for the Save Desktop command This will save everything so that next time you boot with the disk, the desktop will look the way it was when you saved it.

One last thing. Try out your boot disk and see what happens. There's a feature of TOS that causes problems with some programs, making the system hang up for no apparent reason. This is the fastional feature.

The idea of the fastload feature is that programs and accessories can be forced to load into memory (RAM) more quickly by not checking to see whether the nuemory they're loading into has been properly cleared.

This is achieved by what is known as a program flag – basically the operating system looks at a specific byte in the program's header file and works out whether a particular bit is set or not.

All you need to know is that there are a number of freeware programs around (including one from Atari used and GD\_FLAGS as pictured on the opposite page) that will let you examine the fastional bit and reset it if you experience problems. If you're getting frequent inexplicable program or accessory freezang, try and get hold of one of these utilities from your PD differs.

#### Creating your boot disk



You can format a disk, if you haven't already done so, at tern any existing disk into a hoot disk. Always use a backup copy though - if anything goes wrong, all you do is start again. In this exemple, I'm about to turn my word processor disk into a board disk. Mote that the word processor files won't be touched - I'll singuity add accessories and Auto programs and still be while for you the word encosator.

Create an AUTO Feder. If You don't how have, conspit the guides the het fed. New pen it window which the second tick by double ticking an late fi.OpP 1035 & icon. When prompted, remove your prospective bard ticks and insart the floppy disk with your accessories or Auto Feder programs. On They may be neveral fails, these one for now and then repet the steps for each fails. Notice that you can move an extra fails, which that you can be the contents of both disks were with though you have one for now and then type in the property of the pr

don't have to swap disks so often





Select the accessories you want to copy to your board sits. If you want to sever more than one, hold down the Shift key a you select the select thin. When they are all high-lightes, click once more one or of them cannot be select thin. When the mouse button, You can now drag as outline of the filse of the company drag as outline of the filse of the company drag as outline of the filse of the company drag as outline of the filse of the selection of the filse of the selection of the filse of the board disk, let's not get careful away! When the mouse your target ways! for the board filse window, release it and the copying encoses will start, and the copying encoses will start, and

The best thing to do is to feliew the on-excess promptle from hereon for You'll be asked to confirm that you want to copy the files (unless copy confirmation is switched off under Preferences) and told wheel se supplied the All you've get to remember is which disk is which in at his case, At your board that the confirmation is the confirmation of the the confirmation of the disk or that you have the preference of the disk so that you have the bestom of the disk so that you.





With the accessories copied into the root directory, it's tises to copy some attraction folder programs into the Auto folder. The principle is exactly the same. You can drag the appropriate program files onto the Auto folder icon itself until it turns black (or its name depending on how you're viewing but deckstop) or open the folder first and drup the files anywhere inside the window.

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#### **UPGRADING AN STE**

A 520 STe is usually supplied with two 256Kb SIMMs and has sockets to plug in two more - it's that easy! A few do not have sockets in which case you will need a pair of adaptors. These may need soldering; if this is the case, we will supply the sockets at no extra cost - that's service!

A 1040 STe will usually have four 256Kb SIMMs. In order to upgrade you need to replace these with two or four 1Mb SIMMs to give either 2 or 4Mb of memory

#### **UPGRADING AN STEM**

In over 90% of all STFMs, the upgrade plugs straight in. There are possible problems if either the video shifter chip or the MMU chip in your computer are not in sockets.

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tion – 280 dots per inch which means you need far less desk space and get much finer control.

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- Recognises and kills 83 boot sector viruses and 5 link viruses
- Recognises 1,532 different valid boot sectors

TO ENTER, simply tell us what the initials "UVK" stand for what could be easier! A special draw from the survey entries will be made - and 25 of you will receive a copy of UVK!

Now no to page 44 in Atari World, write the answer in the "UVK" box, fill in the survey and send it back to us!

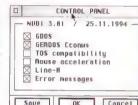
# Let's Got a new AUTO folder? Wondering what to put in it? Denesh Bhabuta pops up with some ideas... automate.

ow many times have you wondered what you could do to enhance your eye. tem and improve the way It works' Most of us want to do things that little bit more quickly or that little bit more conveniently and one way is to choose the right auto fold. er programs. Upgrading the software side of your system in this way is very easy Just imagine being able to work with more windows than the normal limit of four or having keyboard shortcuts available at your fingertips. How about putting in a new all-singing, alldancing file selector - or even speeding up your machine? Drooling yet? Well, read on

#### Let 'em Fly

Lee 'em Fly is one of those special utilities that has never been off my boor disk. It adds extra features to thiologue and alert boxes such as sessigning a keyboard shortest indicated by an underscore or coloured character Alert boxes are much nicer looking and both dialogue and alert boxes can be dragged around the acreen using the mouse.

The program also adds an extended editor for editing text fields in the



NVD1 can be configured easily...

Let 'em Fly shortcuts

cen be indicated by

an underscore or

dialogue boxes, selecting special characters and making boxes snap to the mouse pointer

#### Screen accelerator

NVDI is my choice in this category Before I used NVDI, I wondered what all the fuss was about but, behave me, it is one of those programs that you just have to use once and you'll be hooked for ever. NVDI speeds up your Atari's sorrent display by three or four times making it look and feel as if you've just added an accelerator board'.

Windows and dialogue boxes just open and close with a blink of your eye and text and graphics scrolling and display are much faster Version 2.5 is recommended for floppy users, version 3 for those with a hard disk

#### WinX

What shanges GEMs window management routines, removing many of its shortcoming and giving you a much enhanced system to work with Wink's provides huxuries such as up to 40 winddows on serem at new one time and extra window management commands Windows at the back can be controlled using the right mouse button without bringing them to the froat and they can also be moved beyond the edge of the screen Other features medude the



A background window being moved with

ability to resize the windows in real time and putting a window to the background just by clicking on the title

WinX requires another program, GEMRAM, to be present so it isn't recommend on Ataris with less than 1Mb of memory

#### TOS patches

Each different version of TOS brought its bugs. Most minor bugs were discovered fairly quickly and Atari released fixes, in the form of small auto folder programs, into the public domain.

Essential for all TOS versions is Fostian state of the second of the sec

#### File selectors

The file selector in GEM leaves a lot to be desired – it is hard to navigate from disk to disk and find files in a hurry Considering how often you use it, it makes sense to install a better one.

Enter the best replacement of all, Selectric, with extensive features and a nice interface. It is mouse driven with comprehensive keyboard short cuts and includes file manipulation functions, such as delete and copy, and a search facility with wildcards. Selectric also





Just look at that pretty interface. Everything is just a mouse click away with Selectric...

has the ability to load several files in one go with those programs that support it

#### Mouse accelerator

If you are using the Atarl mouse then
you probably drag the mouse to the end
of your desk last to get the pointer ball

3J.	CONTROL PRIV	E L
	Nouse elerator	off
scr	een saver (+n/ z	~ on L
Fur	ction key guard	on
но	d screen option	on
50	e DK Cancel	Info

Configure the mouse acceleration according to your requirements.

way across the screen. What you really

Silkmouse is the definitely the smoothest mouse accelerator available and it really makes the pointer fly when you need it to but retains pixel-perfect control when you need accurate selection or nontring.

#### Fast loader

Pinhead is a very tiny program that reduces the amount of time it takes to boot the computer, especially if you have several auto programs and accessories. Every program that loads after Pinhead will load a lot faster than before Pinhead even fastloads itself"

Just place it in the auto folder, preferably as the first program of all, and reboot. Simple!

#### Fast printing

Sprint 1.2 is a print spooler that will store the print output from a program and hold it in memory until it can be passed to your printer via the appropriate peru, sually the parallel port. Not only does this mean you print much faster but you can also return almost immediately to your program and get on with something else in the meantitive.

Sprint is best run from an Auto folder (though it can be run when needed from the deaktop) and comes with a configuration accessory for setting varinos parameters, including the size of amount of memory to be set aside. It works best with slower printers such as milyets and low end lasers.

#### Setting the time

The date and time are lost exers time, the system is switched off. Unless you have a hardware clock fitted your ST will always boot up with the same time and date if you want to find the file you saved leaf Wednesday. This always presents a problem. So why not have the computer remind you to fill in the time at each boot-up. Get Set Clock!

#### Mono or colour emulator

The ST is an all round computer so many people buy a monitor which can run the majority of software, in this ease a colour one canable of low and medium reselutions. Some programs regulre a mono monitor but rather than going out to buy a brand new monitor. you can use a mono emulator instead SeBra is a good choice that works oute fast, compared to other emulators, and even takes advantage of the blitter chip if it's present. And if you want to run colour programs on a mono monitor. check out Big( olour To give you an idea, the emulator pies on this page accurately reflect the emulated screens



SeBra running in high resolution mode on an Atari colour monitor...



.. and with some additional colour into the bargain .

.. and there's always
a colour emulator
for mono monitors
too, in the shape
of BioColour!





You can speed up your printing courtesy of SPrint (left), or even have your ST remind you to set the correct time at start up!





#### Where to get them...

GEMEAN 1.6/Wint Z.2, Freeware: Reppyshop, 01224 586208 Let 'eam Riy 1.20. Freeware: Goodman, 02782 335650 Phichaed 2.1, Sharware: Reppyshop Selfar 3.73, Freeware: Reppyshop Selfar 1.32, Freeware: Goodman Set Clack, Freeware, Goodman Stillmouse 2.2, Sharware, Reppyshop

TOS Patches, Freeware: FaST Clab Bisk UT350, 0115 945 5250 HVBI 2.5 £29.95: System Solutions, 0181 693 3355 XBoot 3.10 £79.95: HSSoft. 01525 718181

# Fashion. accessories

Steve Pedler presents a list of ten desk accessories you just can't afford to miss...

ook in any ED library cetalogue and I guarantee you'll
see dozens and dozens of
desks tooswortes—ofern
known as DAs for short
Unfortunately you can only lond up to
six at once, so how do you choose the
best? Just for you we've got ten of the
very best available. Some are free,
others are sharewer or commercial
programs, but all of them are superb
additions to your system

#### Addrage

Address is a superb shareware address and telephone number manager and a very attractive one at that it can store everything you need to know about a contact is contained and even dial the person's telephone number if you have a modern attached. Address is a great example of modern GEM software, and

#### What are desk accessories?

Dead accessions are programs that can inside your complete along with the early program as not reasoning. They are excessed by citize key on the accession's name in the excessed by citize key on the accession's name in the citizens of the accession of Fig. that boot process and cannot be unloaded out the citizens of a rest to the accession of the citizens of the citizens of the citizens of the citizens only for the citizens are some timnateless—only for the citizens to the citizens of th



A standard Desk menu showing accessory



although it's a large program, it will still run from a floppy disk. If you need to keep lists of names and addresses and have them handy when you're using your Atari, this is one of your best

#### Chameleon

When you Install Chameleon, it allows you to load and the DA in its place you to load another DA in its place. This second DA takes over Chameleon's soft to the mean but Then, if you wish, you can unload the second and load a on. Chameleon is a clever program that effectively allows you to bepass the aix DA limit, although only six are still installed at any one time. Chameleon only occupies 5 Rb of memory which is unreadily such if you suddenly you need that DA that you forgot to unstall and don't finer rebooting.

#### Control Panel and X-Control

Control Panel was the first DA provided with Atari computers. It is an important accessory which allows you to set various system parameters such as the colours, keyboard repeat rate, the type of printer, serial port settings and so on



The original Control Panel (left) and X-Contro. (right).

It has been replaced latterly by X-Control, the extended control panel which can load special programs called extensions (CPXs)

The beauty of CPNs is that thay are not resident in your computer's memory, so you can have as many as you like, and load or unload them as will. In your different CPNs are available and some commercial programs (such as the servest accelerator NYD1) also come with a CPX to configure the main program. If you have a hard drive, X-Control is the better program, but if not you may find it easier to use the original Control Panel Both are freeware.

#### ST-Guide

The main edit

window of Address

ST-Guide, displaying

the contents page of

Its own help Hie.

At long last, the ST has its very own hypertext help system like other graphical computers. To read these files, you need this shareware DA, which is



rapidly becoming an essential item, as more and more software is being supplied with ST-Guide format help files.

#### Darklord

This is a screen saver DA designed to prevent damage to your monitor if it



Backland's main control panel.

shows the same image for long periods of time. It does this by providing an ever-ohanging graphical display so that the picture is never the same in one spot.

Spot. There are many screen savers around bot Darkford is unusual that it is extensible and allows you to load aiternative modules to give different effects on the screen. It is even possible for you to write your own modules for you so. Firstly, it's well designed and arranctive. Secondly, the author has generously made it freeware. And thirdly, I'm the author?

#### **Image Copy**

Sometimes you might want to take a snapshot of the image on the computer screen and save it to disk for future use. At other times you might want to quickly view an image on screen but not have the program that created it to hand. There are a lot of these screen grabbers ground and while Image Copy is undoubtedly the best, to call it just a screen grabber would do it a serious injustice. It is much more than that: it Is a superlative picture viewer that can load and save pictures in many different formats including JPG and PhotoCD (special version) and even catalogue images and display thumbnails. All the screenshots in this article were taken

with Image Copy (Article? More like the

#### Diamond Format

The latest version of Diamond Format is supplied solely with commercial programs unch as Diamond Book from Illieds, but earlier, still very capable, versions are available as freeware. This is a disk formatter, intended to help you round that awkward moment when you have done some important and time-consuming work and suddenly discover that you don't have a floppy disk on which to save it. The solution? Call up this Diamond Format and wit back and would be sufficient to the consuming that the solution?

#### EdHak

This is a text editor that sits patiently in memory until you need it. This can be extremely useful because you don't have to quit your main program if you want to write some notes or read its documentation file. It is extremely flexible and connec with a good manual for those who want to find out more about ASCII characters sets text conversion



from one computer to another and so on. EdHak also lets you examine and change the contents of your computer's memory (hence the 'Hak' part of its name!), which is very useful for programmers. It is commercial but low

#### Procalc

From Atari itself no less, this is one of the best calculator DAs for the Atari and easily beats the buggy affair supplied with Windows on the PC. Procalo



can operate in scientific the calculation mon ber of useful built-in free.

Harlekin

Edita's mala window displaying a secessory, Harlekin tude of functions int under functions in the comment.

Imagecopy, showing

just some of the

many options.



The main display in

ProCalc

can operate in scientific, computer, and time calculation modes and has a number of useful built-in functions. It's also

This is, I suppose, the ultimate desk accessory. Harlekin combines a multi-mide of functions into on Di, including a superb diary/time manager, text editor, comms models, exreen sever, disk and file management fiesilities (including a replacement file selector) and far more than I can list here! It disadvantages include the large amount of memory it can take up and the large amount of memory it can take up and the large attempt for tem todates are not as fully-featured as dedicated, single-purpose DAs. But it is still an excellent program with a well-design user interfuse. Commercial software.

#### Where to get them ...

Freeware and shareware programs are available from good PO libraries and bulletin boards. The commercial programs can be obtained from: EdHak, £9.95, Douglas Communicationes 0151 456 9587.

Hartekin, £59.95: HiSoft, 01525 718181. Imagecopy, from £29.95: PaSY Club 0115 945 5250.

## The Language

Atari World presents exclusive excerpts from Mark Baines' definitive A-Z guide to the Atari.

The file name extension for a desk accessory. The file extension (also called an extender) comprises the three letters after the dot.

#### Accessory

Special programs, also known as desk accessories, that can be loaded into the six desk accessory slore available from the Deak menu. They are normally found in the boot disk's root directory and are usually small utilities that can be used in any GEM program. MultiTOS allows an unlimited number of accessories to be run from the desktop.

#### ACIA

Asynchronous Communication Interface Adapter, Two Motorola 6850 chips used for processing serial data (one hit after another) from various sources into the parallel form (eight bits together) required by the processor or memory. The first operates the MIDI interface and the second interfaces with the keyboard chip

which handles the keyboard. mouse, joystick and clock.

#### ACST

Atari Computer Systems Interface, A subset of the SCSI commands designed for communication between peripherals and microcomputers and controlling the DMA port of STs and TTs. In the Falcon, the DMA/ACSI port is replaced with a full SCSI port.

The usual file name extender for an accessory that is not currently



menu item. When the commuter is re-booted, that accessory will not

Application Environment Services. A part of TOS that provides the windows and leonic user



GEM at boot-up. A user can inac-

installed and hence ignored by tivate an accessory by renaming it to ".ACX using the Show Info

ACC and ACX. A drive window showing a list of active and inactive accessories. Those with the \*.ACC file extender are loaded into the system. Those with the \*.ACX extender are ignored.

interface of GEM, dealing with resource files, windows, dialogue boxes and menus.

#### AHDC

Atari Hard Disk Controller. The circuit board found in Atari's hard disk drives that interfaces the hard disk mechanism to the DMA port receiving commands from the AHDL

You can select any of up to six accessories from the Besk menu.

CRY and CR2 11ke the secretary files CPX modules for the XControl Panel can be disabled by renaming them with the .CPZ file name extender. The XControl Panel will take care of that Options...Setup dialogue box.

Atari Hard Disk Interface, Atari's hard disk driver software that controls the hard disk controller via the DMA

#### XALA

The floppy disk controller chip in later MegaSTe, TT and Falcon computers capable of using and formatting high density 1.44 Mb and 2.88 Mb floopy disks. It is essentially an uprated WD1772 ehin

#### Alert box

A GEM dialogue box designed to bring something to the user's attention. There may be up to five lines of text each with thirty characters and a question mark, exclamation mark or ston sign image. Up to three buttons can be used. normally including OK and Cancel.

The file name extension for a GEM program like \* PRG.

#### ASSIGN.SYS

A file used by all types of GDOS to tell it where to look for GEM bitmapped fonts and printer drivers. The file should be stored in the root directory of the boot disk or boot partition.

## Barrier

Auto folder

A boot disk folder called Auto containing programs with the

teally loaded into the computer

at boot-up and before the desktop

add additional functions to TOS

Basic Input/Output System. The

part of TOS that provides the low-level screen and disk manage-

ment functions for GEMDOS.

It is essentially the interface

ware and is concerned with

detros

Bitmapped

between GEMDOS and the hard-

screen output, keyboard, joystick

and mouse input, printer output.

serial port functions and the disk

Consisting of individual bits. A

bitmapped font, for instance, has

each character made up of lots of

A flancy best disk in drive A: showing

the accessories (active and inactive).

DECKTOR INF and ASSIGN SYS files and

separate bits or pixels.

or carry out fixes to its bugs.

cutable boot sector, that automatically runs one or more programs upon power up or reset and which contains accessories, the AUTO folder and the DESKTOPINF or NEWDESK INF file.

#### Bombs

When an error occurs, TOS displays a row of bomb teons across the screen warning the user of

what has happened. The best rem-

edv is to switch off the computer

and wait about twenty seconds

before booting again.

and using no main memory except for the program's data. Some cartridges do not contain program ROMs but are interfaces for other devices, such as scanners and battery backed clocks or contain audio digitisers and samplers. Others are used as a security donéle

#### Centronics

A standard for parallel data transfer (eight bits together) between microcomputers and printers. The port is based on a 36-way connector and the cable can be up to several metres long.

#### Clipboard

An area of memory or disk storage where a block of data can be temporarily stored from a program to be reused later or transferred to another ambigation. There Is a cliphoard module for Atari's XCONTROL extensible control panel (CLIPBORD.CPX) that preates a CLIPBRD folder on the boot drive and uses it as a elipboard.

#### Close box

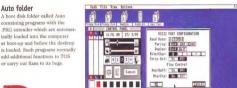
The icon in the top left corner of a GEM window that closes that window when clicked on and may also cause the program to avir

#### Codec

A device used to convert sound into bit-patterns for transmission or storage and to reconvert them back again into sound. The Falcon uses a stereo 16-bit codec.

#### The CLIPBORD, CPX sets up the clipboard path and enables the contents to

he viewed (on the right) or cleared at any time. It is very useful for transferring bits of text or images between programs.



........

The old Control Panel is still useful for satting up arrang colours, the sarial and printer port configurations. These settings are saved into the DESKTOP.IMF

Block Transfer or Block Image Transfer. The process of moving or copying a block of memory from one position to another. The method results in very fast transfers of data, particularly images.

The Bit-Block Transfer Processor is an Atari custom designed coprocessor chip using blitting (see BLiT) to improve the speed of text formatting and graphic operations by 30-40%. The blitter is fitted to the Mega ST, STE, Mega STE and Falcon as standard.

#### **Boot disk**

sometimes containing an exe-

A disk (usually drive A or C).

Blitter chip An area of memory or disk space that holds some recently accessed or processed data in anticipation of its use by the processor or a

#### again. Cartridge

Cartridges consist of 128 Kb of Read Only Memory (ROM) and plug into the cartridge slot, enabling instant program access

program, thus saving on the time

needed to process and construct it





### PUBLIC DOMAIN & SHAREWARE UPDATE

No matter how much coverage the ST Magazines give to Public Domain & Shareware, they only give you a sampler of the vast range available. As one of the longest established ST libraries in the World, we are constantly adding new titles to our, already extensive collection, so why not send today for our compre hensive PD & Shareware Guide, it's now approaching 260 pages, with good descriptions, screen shots, etc.

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